



Technology Leadership
for Digital Cinema

Fidelio System

Wireless Device for the Hearing and Visually Impaired

Installation & User Manual

Version 1.2

*The English version of this document is the only legally binding version.
Translated versions are not legally binding and are for convenience only.*

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Software License Agreement

The software license agreement can be found at the following location:
<http://www.doremilabs.com/support/cinema-support/cinema-warranties/>

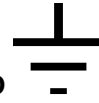
Hardware Warranty

The hardware warranty can be found at the following location:
<http://www.doremilabs.com/support/cinema-support/cinema-warranties/>

WARNING



THIS DEVICE MUST BE GROUNDED



IMPORTANT

Power requirements for electrical equipment vary from area to area. Please ensure that the Fidelio meets the power requirements in the surrounding area. If in doubt, consult a qualified electrician or a Doremi Labs dealer.

WARNING: Multiple sources of supply; disconnect all sources before servicing.

PROTECTING YOURSELF AND THE FIDELIO

Never touch the AC plug with wet hands. Always disconnect the Fidelio from the power supply by pulling on the plug not the cord. Allow only a Doremi Labs, Inc. dealer or qualified professional engineer to repair or re-assemble the Fidelio. Apart from voiding the warranty, unauthorized engineers might touch live internal parts and receive a serious electric shock. Do not put, or allow anyone to put any object, especially metal objects, into the Fidelio. Use only an AC power supply. Never use a DC power supply.

If water or any other liquid is spilled into or onto the Fidelio, disconnect the power and call a Doremi dealer. The unit must be well ventilated and away from direct sunlight. To avoid damage to internal circuitry, as well as the external finish, keep the Fidelio away from direct sources of heat (heater vents, stoves, radiators). Avoid using flammable aerosols near the Fidelio. They can damage the surface area and may ignite. Do not use denatured alcohol, paint thinner, or similar chemicals to clean the Fidelio. This can damage the unit.

Modification of this equipment is dangerous and can result in the functions of the Fidelio being impaired. Never attempt to modify the equipment in any way. In order to ensure optimum performance of the Fidelio, select the setup location carefully and make sure the equipment is used properly. Avoid setting up the Fidelio in the following locations:

- In a humid or dusty environment.
- In a room with poor ventilation.
- On a surface which is not level.
- Inside a moving vehicle where it will be subject to vibration.
- In an extremely hot or cold environment.

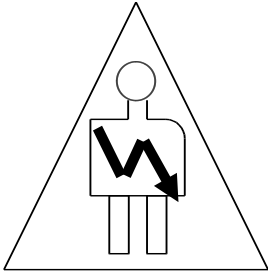
FCC Warning

Be aware that any change or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

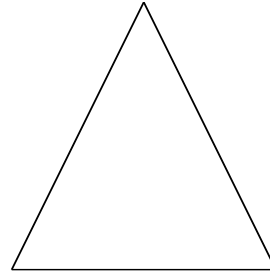
WARNING!!

To prevent fire or shock hazard, do not expose this appliance to rain or moisture

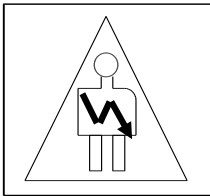


CAUTION

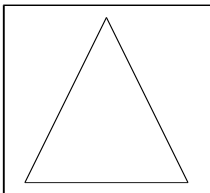
RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with the arrowhead symbol superimposed across a graphical representation of a person, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure; that may be of sufficient magnitude to constitute a risk of electric shock.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

1 Introduction

1.1 Overview

The Doremi Fidelio is an audio distribution system carrying two stereo channels from a single transmitter unit to a number of receiver units. This product was designed to enhance and assist people who are visually and/or hearing impaired in a motion picture theater. This manual will guide you through the steps necessary to physically set up and connect the Fidelio device. The entire Fidelio setup consists of a Transmitter, Receiver, Charging/Configuration Station, Touch Screen Tablet, Audio Interface Box and Headset. The Receiver device docks to the charger, which can be used for multiple purposes including:

- Recharging the battery
- Configuration
- Upgrading firmware
- Production tests

1.2 Fidelio System Parts

- (1) - Fidelio Transmitter – FIDELIO-TX
- (1) - Fidelio Transmitter Antenna -FIDELIO-TX-ANT
- (1) - 2 meter USB cable A-B -CBL-USB-GHX
- (1) - Fidelio Audio Interface Box – FIDELIO-AI
- (1) - 1 meter DB25 cable, M-F, 1-to-1 pin out -CBL-DB25M-DB25F-2.5
- (2) - 1-meter CAT5 Ethernet cable -CBL-ENET-1M
- (1) - Fidelio Receiver with Belt-clip – FIDELIO-RX
- (1) - Fidelio Headphone - FIDELIO-RX-HP
- (1) - Fidelio Charging Station – FIDELIO-WAC
- (1) - 7" Tablet Mounting Bracket - MTL-FIDELIO-WAC-BRTS
- (4) - M3x6 Flat Head Machine Screws, black - M3x6MM-BFH
- (2) - 4" Nylon tie-wrap, black -CBL-TIE-4IN
- (1) - 7" Touchscreen Tablet Computer – FIDELIO-TS
- (1) - USB Cable, mini B-B,12" - No Part Number
- (1) - 5V Power Supply with dual connectors - PS-HDVI (Modified)
- (1) - AC Power Cable - Power Cable
- (1) - USB Power Adapter- CPTVW-ACC

1.3 Requirements

To perform audio mapping, the Doremi digital cinema server must be running software version 2.2.2 or higher.

The installer will need to provide two (2) BNC to BNC cables for each transmitter being installed at the complex. Length of these cables will depend on your specific installation requirement, specifically the distance the transmitter will be from the Fidelio Audio Interface box.

1.4 Contact Information

If in need of help or assistance, please contact your nearest Doremi Labs Technical Support at:

USA

24/7 Technical Support line: + **1-866-484-4004**

Technical Support Email: support@doremicinema.com

Europe

24/7 Technical Support line: + **33 (0) 492-952-847**

Technical Support Link: <http://support.doremitechno.org/ticketing>

Japan

Technical Support line: + **044-966-4855**

Technical Support Email: support@doremilabs.co.jp

Australia ~ China ~ India ~ Indonesia ~ Korea ~ Malaysia ~ New Zealand ~ Philippines ~ Singapore ~ Taiwan ~ Thailand

Technical Support Email: supportasia@doremilabs.com

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2 Overview

2.1 Brief Description

The following is a brief description of each of the components, with pictures, that make up the Fidelio setup. Begin the installation process by carefully unwrapping and removing all Fidelio components from the box. Double-check and confirm that all the parts and components are present.

2.1.1 Fidelio Transmitter

The Fidelio Transmitter is the device that will transmit the Hearing Impaired (HI) or Visually Impaired Narrative (VI-N) audio track from the Digital Cinema Package (DCP) to the Fidelio Receiver (Figure 1). You will need one Fidelio Transmitter for every auditorium you choose to enable.

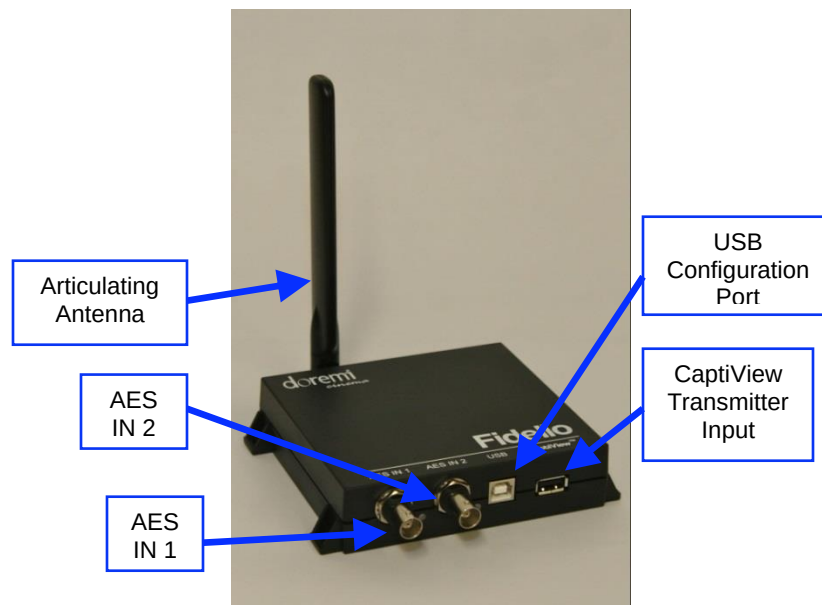


Figure 1: Fidelio Transmitter

2.1.2 Fidelio Receiver

The Fidelio Receiver (Figure 2 and Figure 3) is the device that an audience member obtains from the theater customer service kiosk. This receiver is to be configured using the touchscreen tablet interface for the auditorium number that is enabled for Fidelio transmission. The patron then takes the receiver into the assigned auditorium to receive the transmission from the Fidelio Transmitter that has been configured for that assigned auditorium within the multiplex. Depending on the configuration assignment, the receiver will either receive the Hearing Impaired (HI) audio track, the Visually Impaired Narrative (VI-N) audio track or both the HI + VI-N audio tracks.

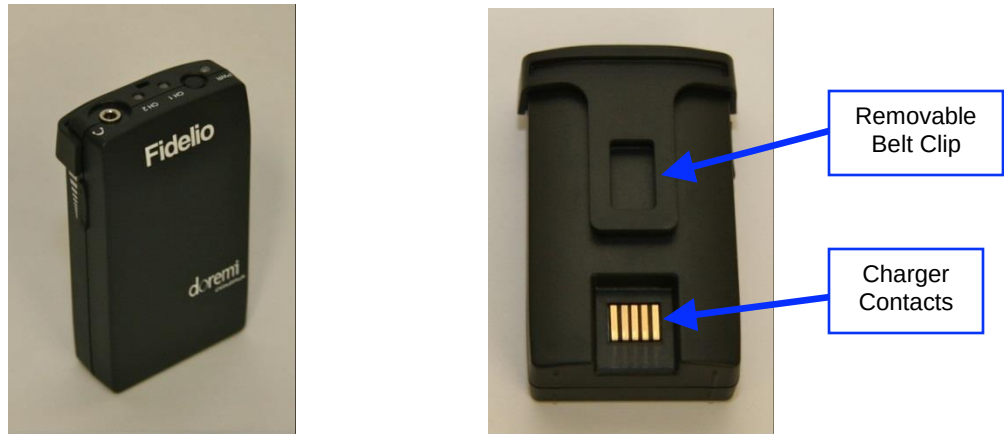


Figure 2: Fidelio Receiver and Rear View

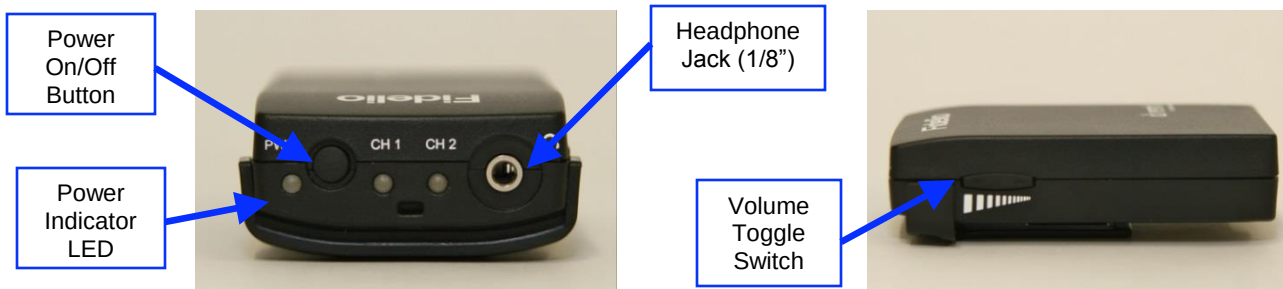


Figure 3: Fidelio Receiver – Top View and Side View

2.1.3 Fidelio Configuration/Charging Station and Tablet

The Fidelio configuration/charging station is used to charge and configure Fidelio receivers. The touchscreen tablet is used to display the graphical user interface (GUI) when configuring each receiver (Figure 4, Figure 5, Figure 6, Figure 7, and Figure 8).



Figure 4: Fidelio Configuration/Charging Station with Tablet

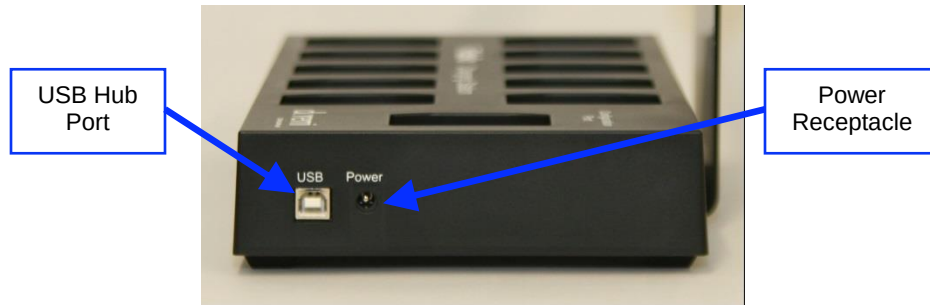


Figure 5: Fidelio Configuration/Charging Station - Side View



Figure 6: Fidelio Configuration/Charging Station - Top View

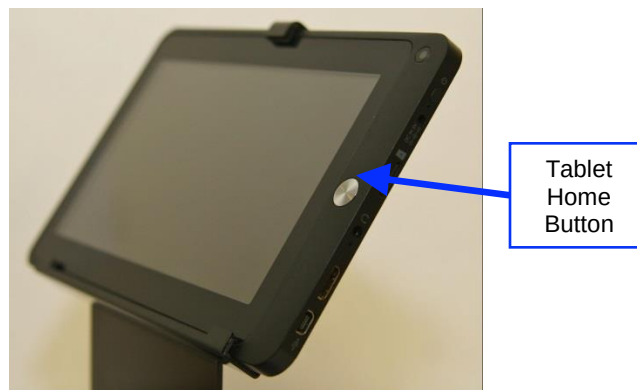


Figure 7: Fidelio Tablet – Front View



Figure 8: Fidelio Tablet – Side View

2.1.4 Fidelio Audio Interface



Figure 9: Fidelio Audio Interface – Front View

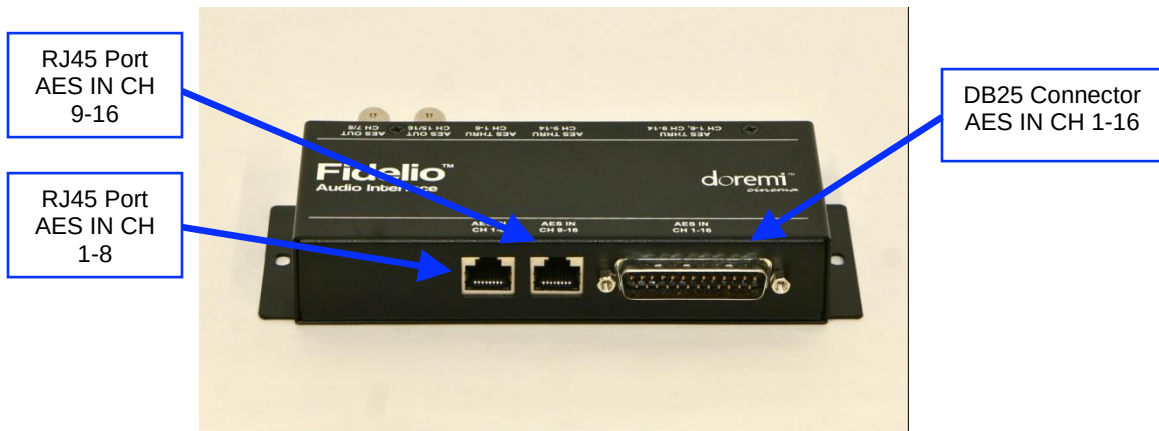


Figure 10: Fidelio Audio Interface – Rear View

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3 Installation

Follow the steps below to set up the Fidelio System.

3.1 Charging Station/Touchscreen Tablet

- You will need to first connect the touchscreen tablet to the charging/configuration base using the tablet bracket.

3.1.1 Connection of the Tablet Bracket to the Configuration/Charging Station Base

- Place the Fidelio configuration/charging station base upside down near the edge of a table so that the tablet bracket can hang down and sit flush to the bottom of the base.
- Line up the 4 (four) holes of the tablet mounting bracket to the 4 (four) holes of the charging/configuration base.
- Using a Phillips screwdriver, carefully secure the tablet mounting bracket to the charging/configuration base using the (4) - M3x6 Black Flat Head Machine Screws provided.

3.1.2 Installation of Tablet into the Stand Bracket

- Turn the Fidelio configuration/charging station base over so that it is sitting upright.
- Loosen the tablet clip screws (Figure 11).
- Slide the touchscreen tablet from the right-hand side of the bracket grooves until the tablet is centered on its mounting bracket.
- Tighten the tablet clip screws to secure the touchscreen tablet in the bracket.

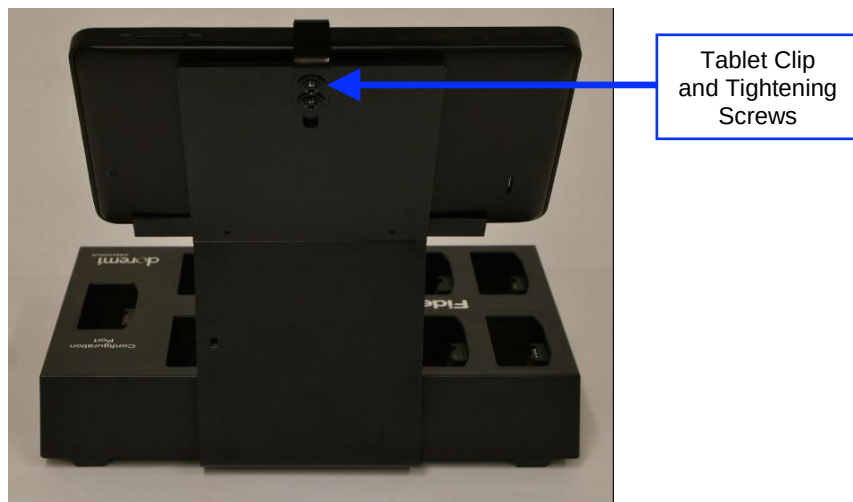


Figure 11: Tablet Rear View

3.1.3 Power Supply Connection

- Plug the “Y” Power Supply cable into the port labeled “Power” on the charging/configuration base (Figure 12).



Figure 12: Power Port

- Plug the small end of the connector with the yellow tip into the touchscreen tablet port labeled “DC IN 5V,” which is located on the right-hand side of the touchscreen tablet (Figure 13).

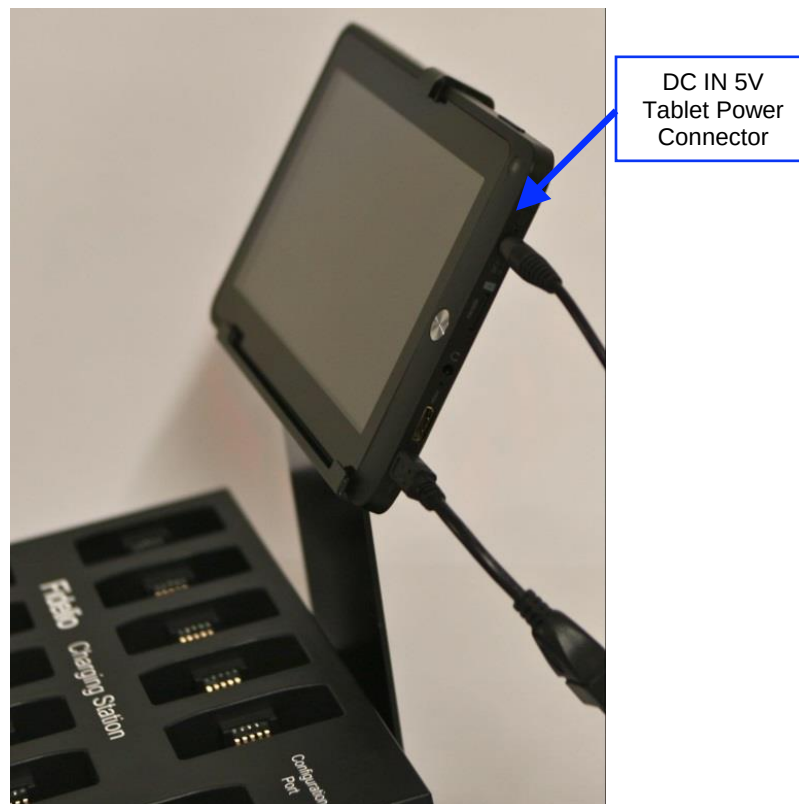


Figure 13: Tablet Power Connector

- Using a 4" Nylon black tie-wrap provided, slip the tie-wrap through the eyelet (Figure 14) to secure the cable to the tablet mounting bracket.

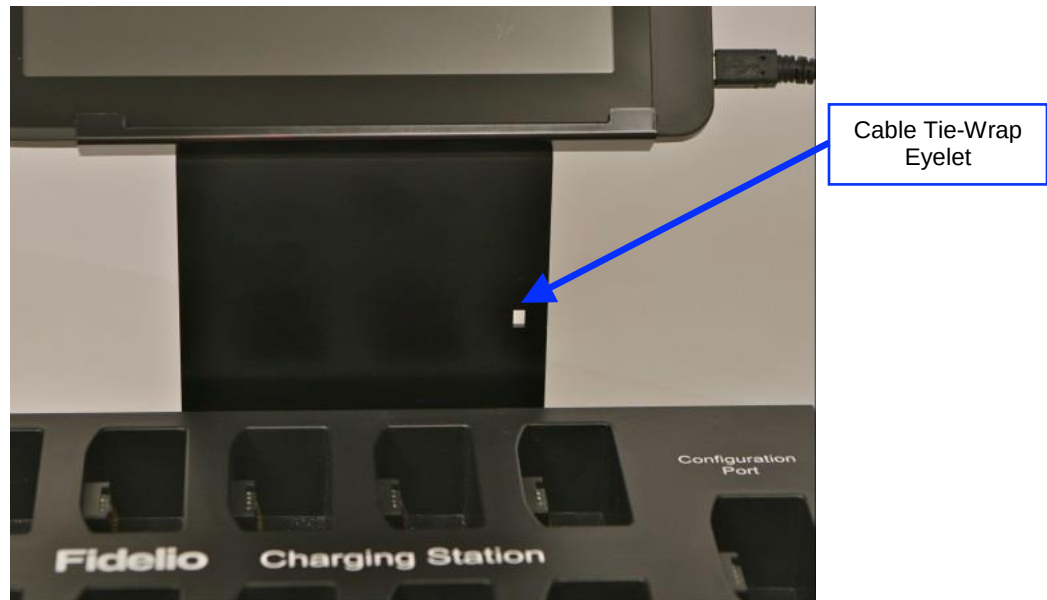


Figure 14: Eyelet for Cable Tie-Wrap

3.1.4 USB Cable

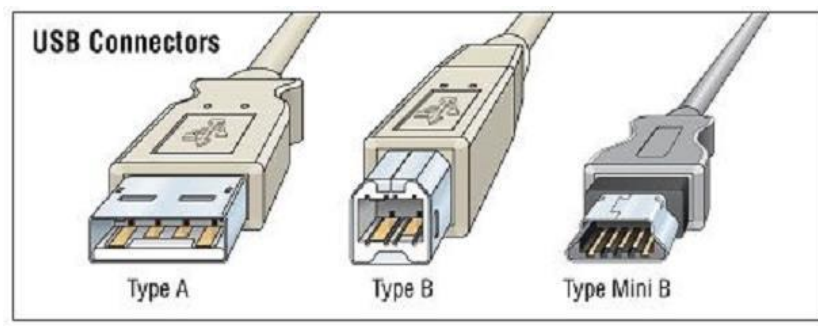


Figure 15: USB Connectors

- Plug the large end (Type B) of the USB cable into the Fidello configuration/charging station base and the smaller end (Type Mini B) into the micro USB port located on the right-hand side of the Fidello touchscreen tablet (Figure 15 and Figure 16). This USB cable connection is essential to configuring Fidello Receivers to specific auditoriums along with their audio channel assignments.

Note: The USB cable may actually be an A to B cable with an adapter to convert to Mini-B.

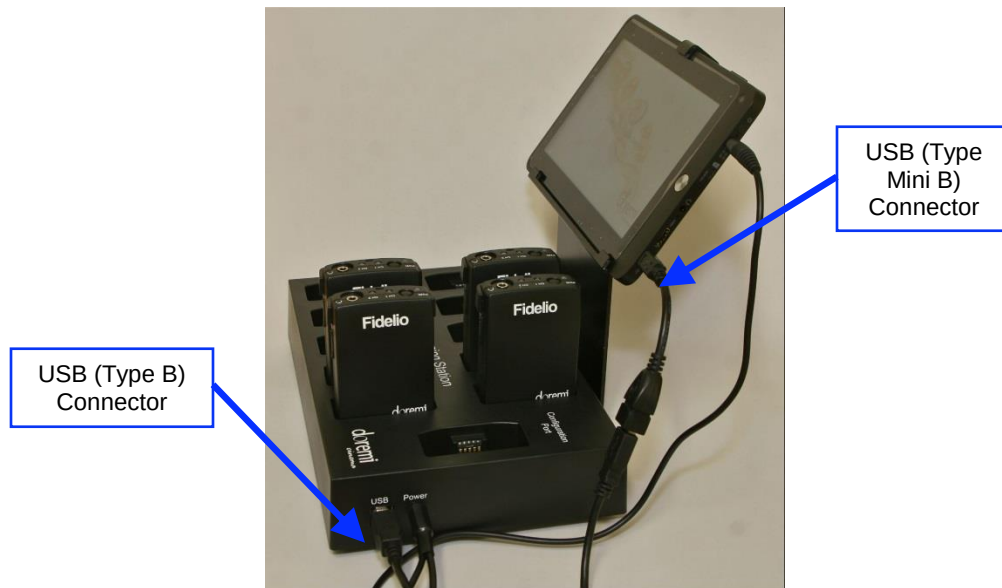


Figure 16: Fidelio Charging Station and Tablet

3.1.5 Charging the Receiver Batteries

- After you have plugged one end of the power cable into the Fidelio configuration/charging station base, the other end of the cable needs to be plugged into a wall outlet for power.
- Place any Fidelio Receiver requiring a charge into one of the base's 10 charging receptacles. Make sure that each receiver is fully seated in the charging receptacle to ensure good contact between the base and receiver's charging contacts.
- When the Fidelio Receiver is placed securely into one of the ten charging receptacles on a powered charging station, a flashing green LED located next to the Power button on the top of the transmitter will indicate that battery charging is active.
- Charge all Fidelio Receivers until their batteries are full. A steadily illuminated green Power LED will indicate that the battery is fully charged. It takes about an hour and a half to fully charge the Fidelio.
- The Fidelio Receiver will function for 12 hours, playing at max volume with a fully charged battery.

3.2 Assigning the Transmitter Channel

- Connect the Fidelio Transmitter antenna to the backside of the transmitter where it is labeled "ANTENNA." Do so by threading the antenna's silver serrated collar into the gold threaded connection on the Fidelio Transmitter. Once connected, you can articulate the antenna if needed.
- Upon the initial set up, each Fidelio Transmitter will need to be assigned to a specific auditorium. To perform this operation, plug the large end (Type B) of the USB cable into the Fidelio Transmitter and the smaller end (Type Mini B) into the micro USB port located on the right-hand side of the Fidelio touchscreen tablet (Figure 16).

- Power up the Fidelio touchscreen tablet by depressing the power switch located on the top right-hand side of the tablet (Figure 8).

Note: You will need to keep pressure on the switch until the Android splash screen comes up.

- After the Fidelio touchscreen tablet has finished booting up, you will need to unlock the screen by using your finger on the unlock padlock icon and sliding the unlock padlock icon in the up direction on the touch screen (Figure 17).



Figure 17: Tablet Unlock Padlock Icon

- Once unlocked, you will be presented with the application icons screen. Using your finger, touch the Fidelio application icon to launch the application.

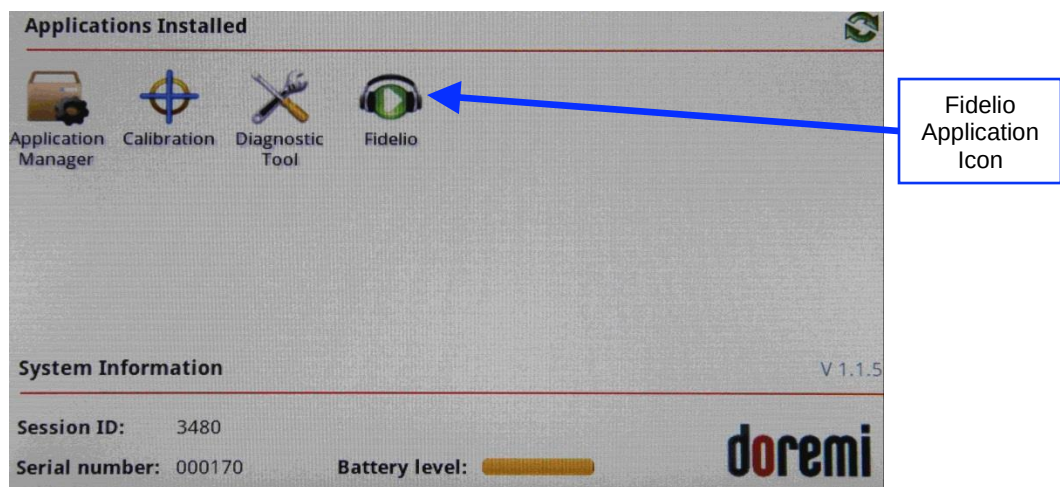


Figure 18: Fidelio Application Icon

- At first you will see a message saying, “Looking for Fidelio Devices” (Figure 19).
- Next, you will see a message saying, “Identifying Fidelio Device.”

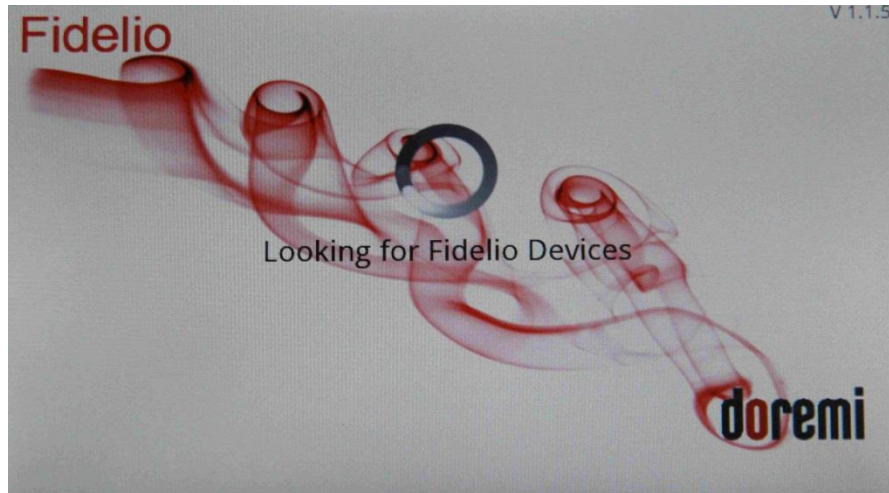


Figure 19: Looking for Fidelio Devices Screen

- Once the Fidelio Transmitter is recognized, a screen will appear that will indicate what auditorium number has been assigned to the transmitter. Simply touch the Change button on the screen to change the auditorium assignment (Figure 20).



Figure 20: Transmitter Change Auditorium Screen

- When you have touched the change button, you will be presented with the Select Auditorium screen. You can select auditorium assignments from 01 to 32.

Note: Any number with a blue square indicates that the auditorium number has been previously assigned to a transmitter within your complex, not just the one currently plugged in (Figure 21).

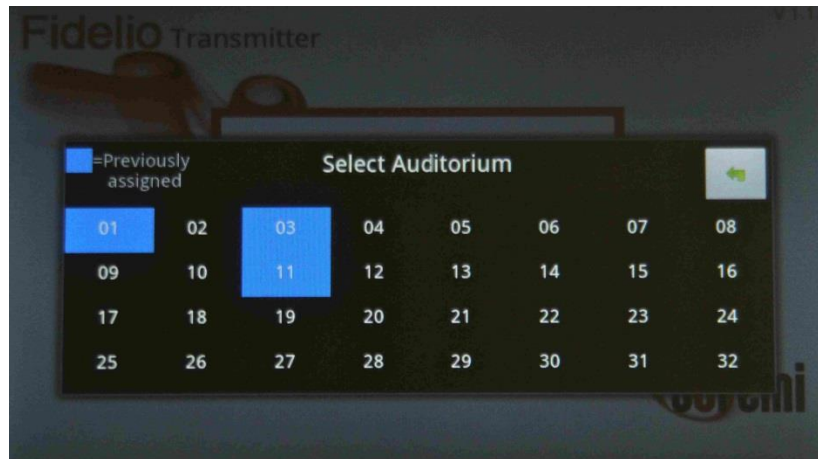


Figure 21: Transmitter Select Auditorium Screen

- Once you have assigned the correct auditorium number, press the Home button on the tablet (Figure 7) and disconnect the USB cable connected to the transmitter.
- Label the transmitter with the appropriate auditorium assignment as a reference so that it is installed in the correct projection booth.
- To configure another transmitter, launch the Fidelio application and connect the transmitter to the configuration tablet.
- Follow the same steps mentioned above.
- Once you have configured all your Fidelio transmitters, power down the Fidelio tablet by depressing and holding the tablet Power button until the Power Off option appears on the tablet screen (Figure 22).

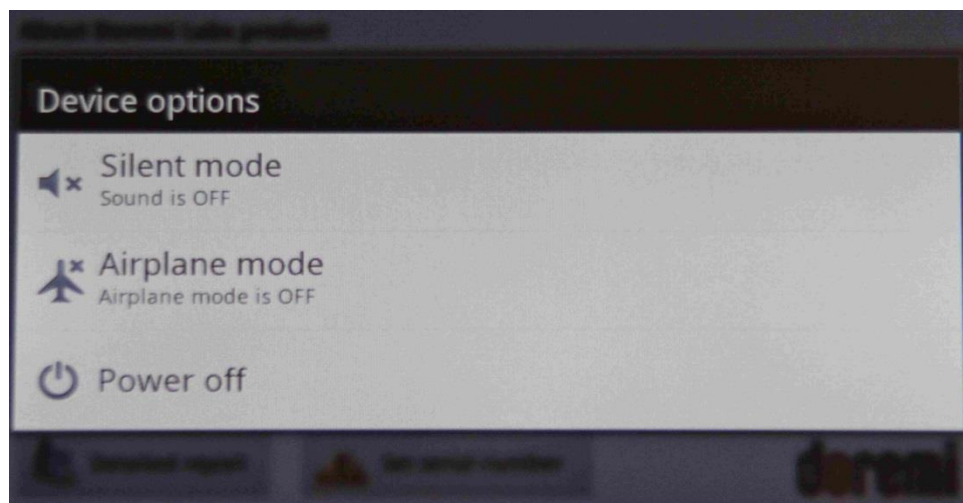


Figure 22: Power Off Screen

- Depress the Power Off selection and then press the OK button to complete the process (Figure 23).

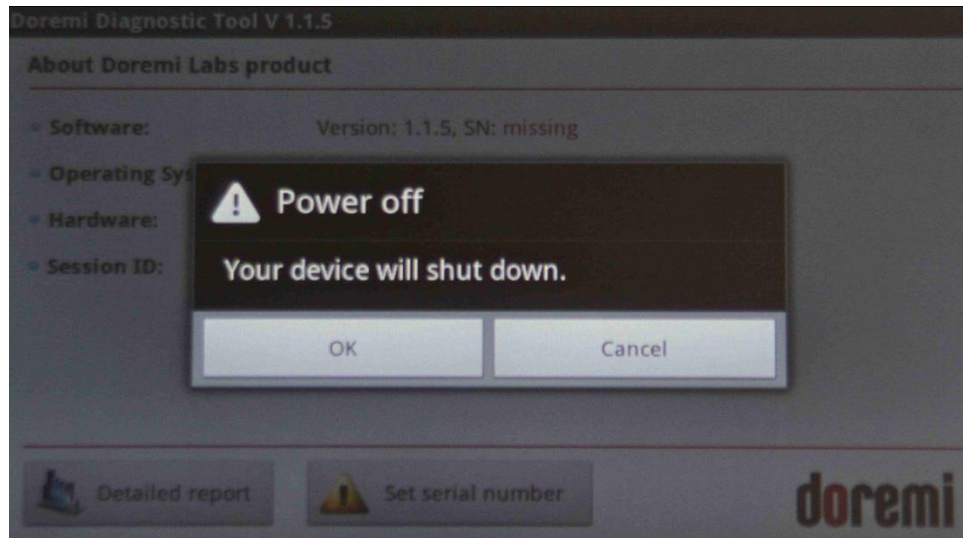


Figure 23: Power Off OK Button

3.2.1 Connections in Projection Booth

3.2.1.1 USB Power

- First you will need to plug the large end (Type B) of the USB cable into the USB port located on the front of the Fidelio Transmitter box (Figure 24).



Figure 24: USB Cable Plugged into Fidelio Transmitter

- The other end of the Type A connector will need to be plugged into the USB Power Adapter provided or to one of the USB ports on the Digital Cinema Server.
- If you are using the USB Power Adapter, plug this into an AC outlet.
- One of these connections will provide power to the Fidelio Transmitter box.

3.2.1.2 CaptiView

- If the auditorium your installing the Fidelio audio distribution system into has a CaptiView transmitter installed, you can plug the CaptiView transmitter into the port labeled “CaptiView” on the front of the Fidelio Transmitter box (Figure 25).

Note: The Fidelio Transmitter box *must* be connected to the Doremi Digital Cinema Server via a USB cable for the CaptiView transmitter to transmit the CC (Closed Captioned) information to the CaptiView Display(s) in the auditorium.



Figure 25: CaptiView Port

3.3 Fidelio Audio Interface Connections

- The Fidelio Audio Interface box has the ability to interface with both the DB25 connector and RJ-45 connectors. In either case, the Fidelio Audio Interface box is used to access the AES audio channels, 15/16 & 7/8, to then transmit to the Fidelio Receiver.

3.3.1 Server to Audio Interface and then to Theater Sound Processor

3.3.1.1 DB25 Connector Setup

- If your setup consists of using the DB25 cable, you will need to disconnect the DB25 cable from your Doremi digital cinema server and connect this cable to the connector on the Fidelio Audio Interface Box labeled, AES THRU CH 1-6, CH9-14 (Figure 26).
- The other end on this cable is to remain connected to your audio processor.
- Using the short DB25 cable provided, connect one end into the AES OUT on the Doremi server and the other end into the AES IN connector on the Fidelio Audio Interface box.



Figure 26: Audio Interface for DB25 Setups

3.3.1.2 Audio Interface to Fidelio

- You will now need to connect one BNC cable (NOT provided) to the Fidelio Audio Interface Box BNC connector labeled, “AES OUT CH 15/16” (Figure 26).
- Connect the other end of this BNC cable to the Fidelio Transmitter box BNC connector labeled, “AES IN 2” (Figure 27).
- Now connect another BNC cable (NOT provided) to the Fidelio Audio Interface Box BNC connector labeled, “AES OUT CH 7/8” (Figure 26).
- Connect the other end of this BNC cable to the Fidelio Transmitter box BNC connector labeled, “AES IN 1” (Figure 27).



Figure 27: AES Connection on Fidelio Transmitter

- Your connections concerning the projection booth are now complete.

3.3.1.3 *RJ45 Connector Setups*

- If your setup consists of using RJ45 connectors, you will need to disconnect the RJ45 cables from your Doremi Integrated Media Block (IMB).
- Then connect these cables to the connectors on the Fidelio Audio Interface Box labeled, “AES THRU CH 1-6,” and the other cable to the connector that reads, “AES THRU CH 9-14” (Figure 28).
- The other ends on these cables are to remain connected to your audio processor, respectively.
- Using the short RJ45 cable provided, connect one cable into the CH 1-8 AES OUT on the Doremi IMB and the other end into the AES IN CH 1-8 connector on the Fidelio Audio Interface box.
- Using the other short RJ45 cable provided, connect one cable into the CH 9-16 AES OUT on the Doremi IMB and the other end into the AES IN CH 9-16 connector on the Fidelio Audio Interface box.



Figure 28: Audio Interface for RJ45 Setups

3.3.1.4 *Audio Interface to Fidelio*

- You will now need to connect one BNC cable (NOT provided) to the Fidelio Audio Interface Box BNC connector labeled, “AES OUT CH 15/16” (Figure 28).
- Connect the other end of this BNC cable to the Fidelio Transmitter box BNC connector labeled, “AES IN 2” (Figure 27).
- Now connect another BNC cable (NOT provided) to the Fidelio Audio Interface Box BNC connector labeled, “AES OUT CH 7/8” (Figure 28).
- Connect the other end of this BNC cable to the Fidelio Transmitter box BNC connector labeled, “AES IN 1” (Figure 27).
- Your connections concerning the projection booth are now complete.

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4 Assigning the Receiver to an Auditorium

- First you will need to plug the large end (Type B) of the USB cable into the USB port located on the right-hand side of the Fidelio charging station base and the smaller end (Mini A) into the micro USB port located on the right-hand side of the Fidelio touchscreen tablet (Figure 16).
- Power up the Fidelio touchscreen tablet by depressing the power switch located on the top right-hand side of the tablet (Figure 8).

Note: You will need to keep pressure on the switch until the Android splash screen comes up.

- After the Fidelio touchscreen tablet has finished booting up, you will need to unlock the screen by using your finger on the unlock padlock icon and sliding up on the touch screen (Figure 17).
- Once unlocked, you will be presented with the Fidelio application icon screen.
- Using your finger, touch the Fidelio application icon to launch the application (Figure 18).
- The tablet will display a message saying, “Looking for Fidelio Devices” (Figure 19).
- Place a Fidelio Receiver into the port labeled, “Configuration Port,” on the Fidelio charging station base.
- The tablet will then display the Receiver display screen. This screen will provide you with the Auditorium and Channel assignments for the Receiver (Figure 29).



Figure 29: Receiver Auditorium and Channel Assignments Screen

- To change their assignments, simply touch the corresponding Change button (Figure 29).
- When you select the Auditorium Change button, you will be presented with a Select Auditorium screen that will display all theater numbers assigned to a Fidelio Transmitter. (Figure 30).

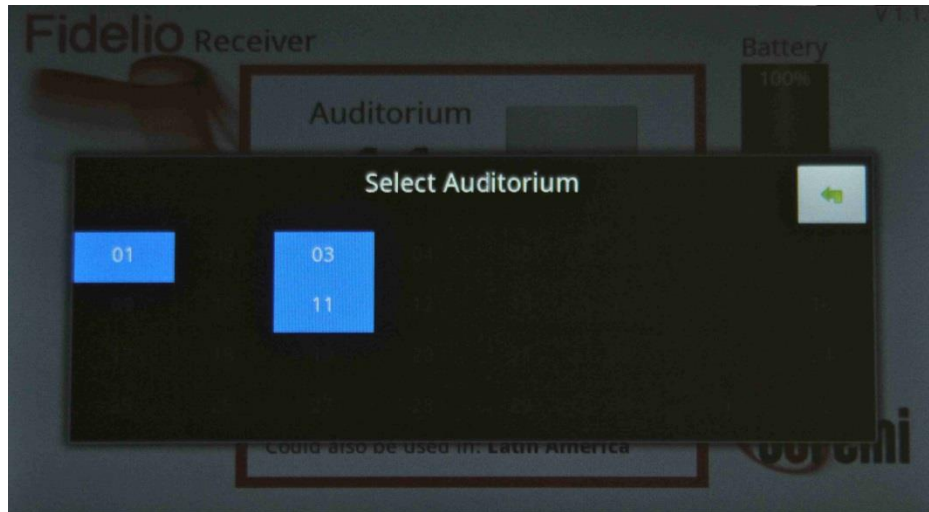


Figure 30: Receiver Auditorium Assignment Screen

- With your finger, touch the theater number you wish to assign to the Fidelio receiver that is plugged into the Configuration Port.
- The tablet will then display the Receiver screen (Figure 31).



Figure 31: Receiver Channel Assignment Screen

- When you select the Channel Change button, you will be presented with the Select Channel screen (Figure 32).

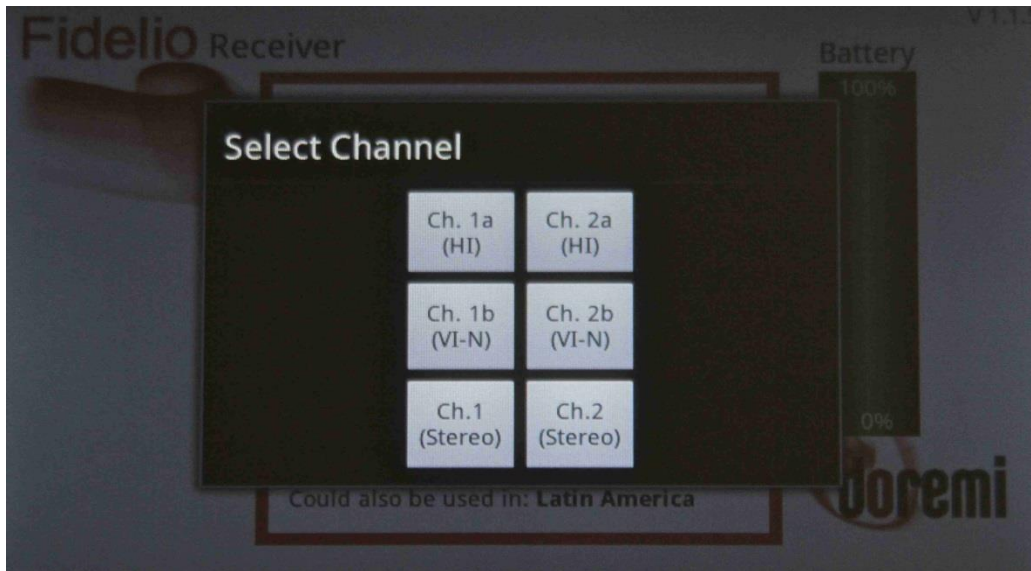


Figure 32: Receiver Select Channel Assignment Screen

- You can select from one of the following options:
 - Ch. 1a (HI)
 - Ch. 2a (HI)
 - Ch. 1b (VI-N)
 - Ch. 2b (VI-N)
 - Ch.1 (Stereo)
 - Ch.2 (Stereo)
- The selection you make will be based on your Fidelio wiring setup and your Digital Cinema Player's audio mapping. In other words, assuming that you use the audio wiring setup as described in this manual, and the Digital Cinema Package playing back has been mastered with the HI audio track on channel 7 and the VI-N audio track on channel 8, your Digital Cinema Player's audio mapping will be configured similar to the recommendations in Figure 33.
- Selecting Ch.1a will provide the audio channel 7 in L&R mono to the receiver.
- Selecting Ch.2a will provide the audio channel 15 in L&R mono to the receiver.
- Selecting Ch.1b will provide the audio channel 8 in L&R mono to the receiver.
- Selecting Ch.2b will provide the audio channel 16 in L&R mono to the receiver.
- Selecting Ch.1 (Stereo) will provide the audio channels 7 & 8 to the receiver. (7 to headset Left, 8 to headset Right).
- Selecting Ch.2 (Stereo) will provide the audio channels 15 & 16 to the receiver. (15 to headset Left, 16 to headset Right).
- After you have selected your theater and channel assignments, the Receiver can now be removed from the configuration port and handed to the customer/patron.

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5 Accessibility Track Mapping

5.1 ISDCF/Interop Specs

- Please refer to Figure 33 for recommendations for use in all Interop DCP compositions.

Note: The audio channel numbers for Interop DCP's map one-to-one to the audio outputs of a player. For this reason, the table also identifies the recommended audio wiring in cinemas.

Channel in package	Configuration			Notes
	5.1	7.1 SDDS	7.1 DS	
1	L	L	L	Left
2	R	R	R	Right
3	C	C	C	Center
4	LFE	LFE	LFE	Screen low frequency effects
5	Ls	Ls	Lss	Left surround (or left side surround)
6	Rs	Rs	Rss	Right surround (or right side surround)
7	HI			Hearing impaired (with emphasis on dialog)
8	VI-N			Visually impaired narrative (audio description)
9	--	Lc	--	Left center
10	--	Rc	--	Right center
11	--	--	Lrs	Left rear surround
12	--	--	Rrs	Right rear surround
13	Motion Data			Synchronous signal (currently used by D-Box)
14	--			<i>Unused at this time</i>
15	--			<i>Unused at this time</i>
16	--			<i>Unused at this time</i>

Figure 33: Interop/ISDCF Recommendations

5.2 Doremi Server Audio Channel Re-Mapping

- The following will assist you to re-map your audio on the Doremi Cinema Player.
- To open the Audio Configuration application, go to Menu → Control Panel → Audio Configuration (Figure 34).

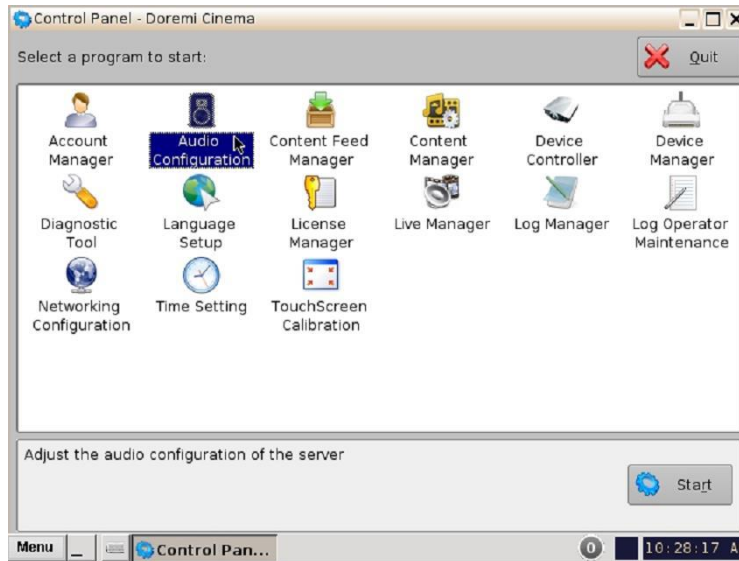


Figure 34: Control Panel with Audio Configuration Icon Selected

- An admin password and confirmation will be needed to perform the operation.
- The Audio Configuration window will appear (Figure 35).

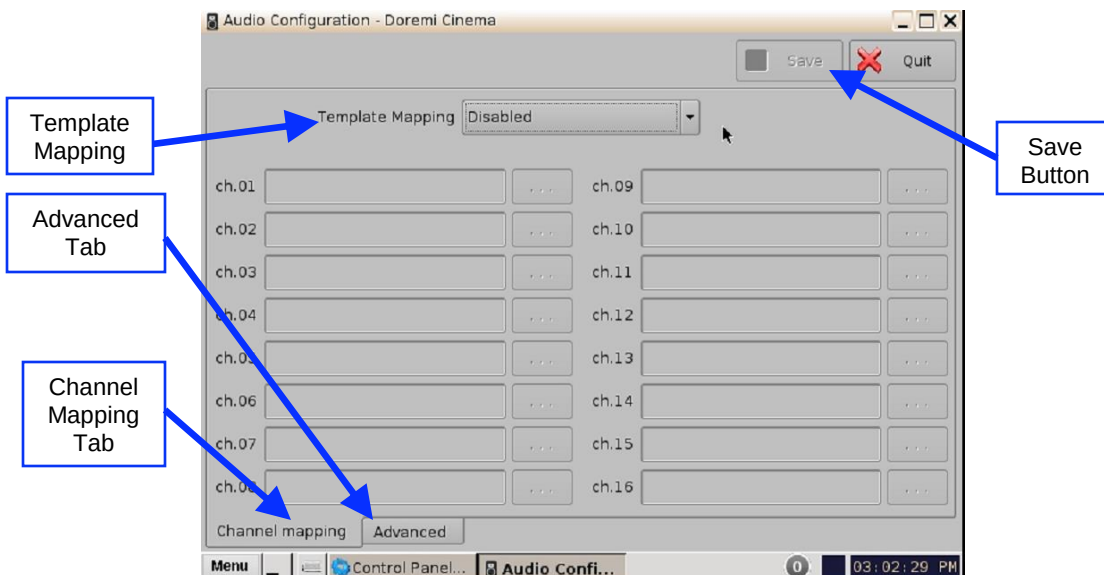


Figure 35: Audio Configuration - Default Setting

- When first launched, the Audio Configuration application opens in the Channel Mapping tab. The Template Mapping will be set to Disabled.

Note: All the templates, except Disabled, can be modified directly instead of having to select Custom. Once the template is edited, the Template Mapping will read Custom.

- Available configurations include:
- Disabled: This setting is the default and as such cannot be mapped (Section 5.2.1.1).

- 4 channels: This is a pre-set configuration.
- 6 channels: This is a pre-set configuration.
- 7 channels: This is a pre-set configuration.
- 8 channels: This is a pre-set configuration.
- 9 channels: This is a pre-set configuration.
- ISDCF: This is a pre-set configuration.
- Custom: This setting allows the user to create his/her own custom audio configuration.

5.2.1 Channel Mapping Tab

5.2.1.1 Disabled Configuration

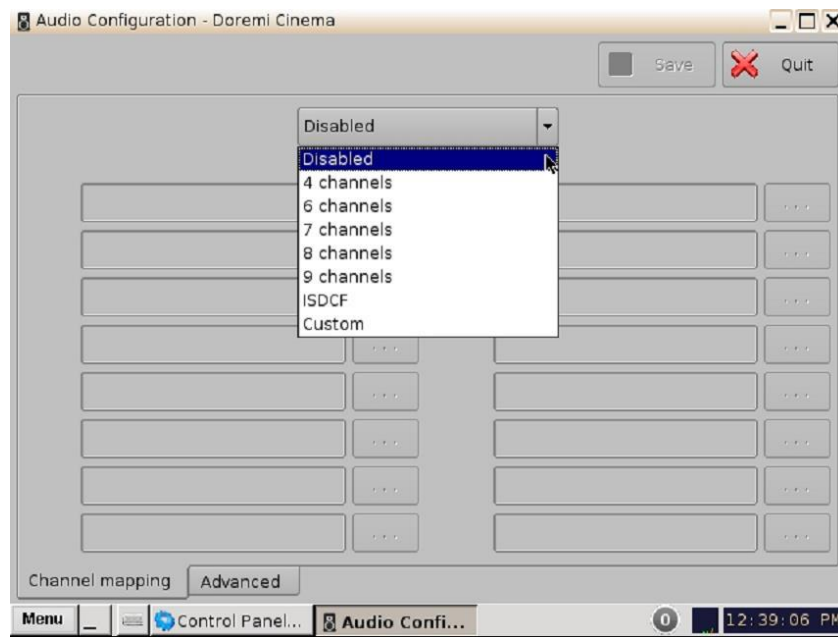


Figure 36: Disabled Configuration

- Disabled: This setting is the default and as such cannot be mapped (Figure 36). The Disabled mapping configuration will perform pass-through mapping, meaning channel number "X" of the CPL audio track will be routed to audio output number "X" (variable) of the server. "X" being a number between 1 and 16. When the configuration is grayed-out, the user cannot change the configuration.

5.2.1.2 Pre-Defined Mapping Configurations

5.2.1.2.1 4 Channels

This configuration is defined as follows (Figure 37):

- **Ch.01 is Left (L):** Output ch.01 will be playing the CPL's Left (L) audio channel.
- **Ch.02 is Right (R):** Output ch.02 will be playing the CPL's Right (R) audio channel.
- **Ch.03 is Center (C):** Output ch.03 will be playing the CPL's Center (C) audio channel.
- **Ch.04 is Input:** ch.04 is pass-through, meaning the output channel "X" will be playing the CPL's audio channel "X."

- **Ch.05 is Surround (S):** Output ch.05 will be playing the CPL's Surround (S) audio channel.
- **Ch.06 – Ch.14:** These channels are pass-through, meaning the output channel “X” will be playing the CPL's audio channel “X.” “X” will be a value between 6 and 14.
- **Ch.15 is HI:** Output ch.15 will be playing the CPL's Hearing Impaired (HI) audio channel.
- **Ch.16 is VI:** Output ch.16 will be playing the CPL's Narration (VI) audio channel.

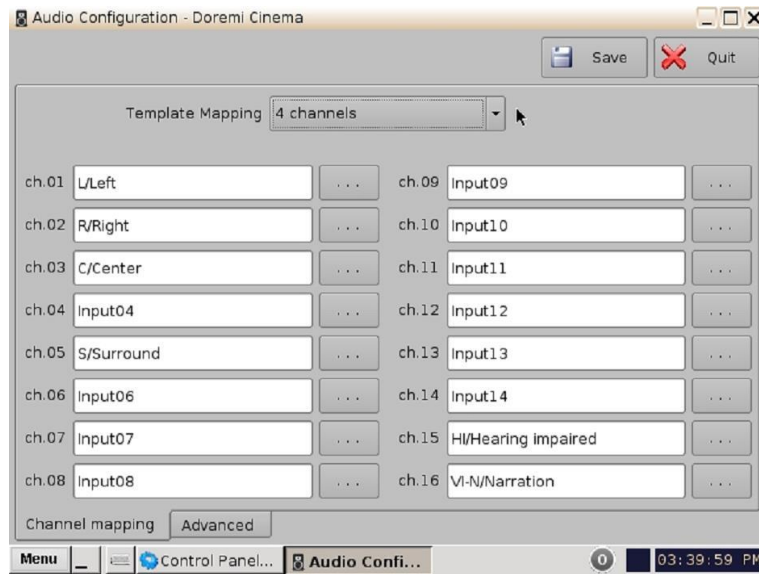


Figure 37: Audio Mapping Set to 4 Channels

5.2.1.2.2 6 Channels

This configuration is defined as follows (Figure 38):

- **Ch.01 is Left (L):** Output ch.01 will be playing the CPL's Left (L) audio channel.
- **Ch.02 is Right (R):** Output ch.02 will be playing the CPL's Right (R) audio channel.
- **Ch.03 is Center (C):** Output ch.03 will be playing the CPL's Center (C) audio channel.
- **Ch.04 is LFE/Screen (Sub-Woofer):** Output ch.04 will be playing the CPL's LFE/Screen (Sub-Woofer) audio channel.
- **Ch.05 is Left Surround (Ls):** Output ch.05 will be playing the CPL's Left Surround (Ls) audio channel.
- **Ch.06 is Right Surround (Rs):** Output ch.06 will be playing the CPL's Right Surround (Rs) audio channel.
- **Ch.07 – Ch.14:** These channels are pass-through, meaning the output channel “X” will be playing the CPL's audio channel “X.” “X” will be a value between 7 and 14.
- **Ch.15 is HI:** Output ch.15 will be playing the CPL's Hearing Impaired (HI) audio channel.
- **Ch.16 is VI:** Output ch.16 will be playing the CPL's Narration (VI) audio channel.

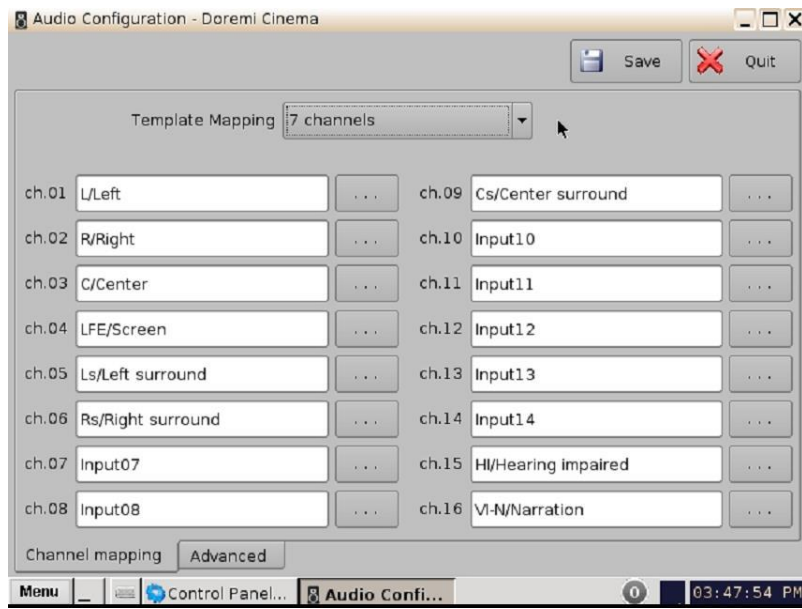


Figure 38: Audio Mapping Set to 6 Channels

5.2.1.2.3 7 Channels

This configuration is defined as follows (Figure 39):

- **Ch.01 is Left (L):** Output ch.01 will be playing the CPL's Left (L) audio channel.
- **Ch.02 is Right (R):** Output ch.02 will be playing the CPL's Right (R) audio channel.
- **Ch.03 is Center (C):** Output ch.03 will be playing the CPL's Center (C) audio channel.
- **Ch.04 is LFE/Screen (Sub-Woofer):** Output ch.04 will be playing the CPL's LFE/Screen (Sub-Woofer) audio channel.
- **Ch.05 is Left Surround (Ls):** Output ch.05 will be playing the CPL's Left Surround (Ls) audio channel.
- **Ch.06 is Right Surround (Rs):** Output ch.06 will be playing the CPL's Right Surround (Rs) audio channel.
- **Ch.07 is Input:** ch.07 is pass-through, meaning the output channel "X" will be playing the CPL's audio channel "X."
- **Ch.08 is Input:** ch.08 is pass-through, meaning the output channel "X" will be playing the CPL's audio channel "X."
- **Ch.09 is Center Surround (Cs):** Output ch.09 will be playing the CPL's Center Surround (Cs) audio channel.
- **Ch.10 – Ch.14:** These channels are pass-through, meaning the output channel "X" will be playing the CPL's audio channel "X." "X" will be a value between 10 and 14.
- **Ch.15 is HI:** Output ch.15 will be playing the CPL's Hearing Impaired (HI) audio channel.
- **Ch.16 is VI:** Output ch.16 will be playing the CPL's Narration (VI) audio channel.

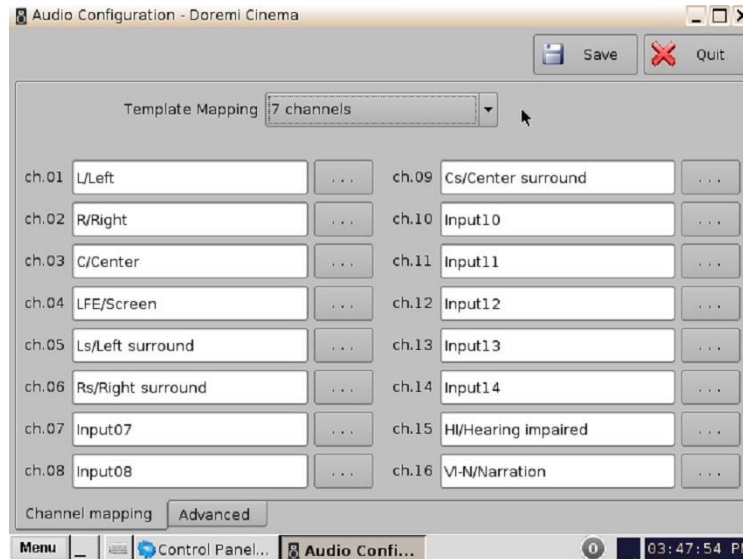


Figure 39: Audio Mapping Set to 7 Channels

5.2.1.2.4 8 Channels

This configuration is defined as follows (Figure 40):

- **Ch.01 is Left (L):** Output ch.01 will be playing the CPL's Left (L) audio channel.
- **Ch.02 is Right (R):** Output ch.02 will be playing the CPL's Right (R) audio channel.
- **Ch.03 is Center (C):** Output ch.03 will be playing the CPL's Center (C) audio channel.
- **Ch.04 is LFE/Screen (Sub-Woofer):** Output ch.04 will be playing the CPL's LFE/Screen (Sub-Woofer) audio channel.
- **Ch.05 is Left Surround (Ls):** Output ch.05 will be playing the CPL's Left Surround (Ls) audio channel.
- **Ch.06 is Right Surround (Rs):** Output ch.06 will be playing the CPL's Right Surround (Rs) audio channel.
- **Ch.07 is Left Center (Lc):** Output ch.07 will be playing the CPL's Left Center (Lc) audio channel.
- **Ch.08 is Right Center (Rc):** Output ch.08 will be playing the CPL's Right Center (Rc) audio channel.
- **Ch.9 – Ch.14:** These channels are pass-through, meaning the output channel “X” will be playing the CPL's audio channel “X.” “X” will be a value between 9 and 14.
- **Ch.15 is HI:** Output ch.15 will be playing the CPL's Hearing Impaired (HI) audio channel.
- **Ch.16 is VI:** Output ch.16 will be playing the CPL's Narration (VI) audio channel.

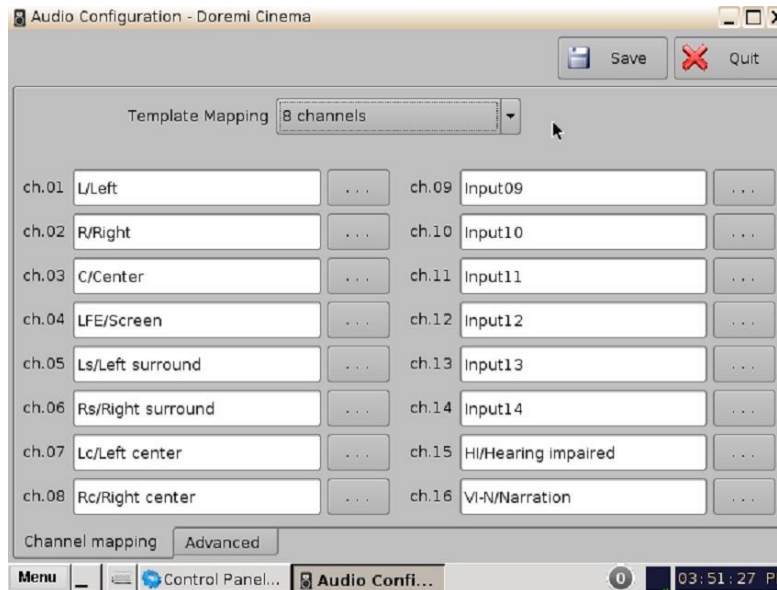


Figure 40: Audio Mapping Set to 8 Channels

5.2.1.2.5 9 Channels

This configuration is defined as follows (Figure 41):

- **Ch.01 is Left (L):** Output ch.01 will be playing the CPL's Left (L) audio channel.
- **Ch.02 is Right (R):** Output ch.02 will be playing the CPL's Right (R) audio channel.
- **Ch.03 is Center (C):** Output ch.03 will be playing the CPL's Center (C) audio channel.
- **Ch.04 is LFE/Screen (Sub-Woofer):** Output ch.04 will be playing the CPL's LFE/Screen (Sub-Woofer) audio channel.
- **Ch.05 is Left Surround (Ls):** Output ch.05 will be playing the CPL's Left Surround (Ls) audio channel.
- **Ch.06 is Right Surround (Rs):** Output ch.06 will be playing the CPL's Right Surround (Rs) audio channel.
- **Ch.07 is Left Center (Lc):** Output ch.07 will be playing the CPL's Left Center (Lc) audio channel.
- **Ch.08 is Right Center (Rc):** Output ch.08 will be playing the CPL's Right Center (Rc) audio channel.
- **Ch.09 is Center Surround (Cs):** Output ch.09 will be playing the CPL's Center Surround (Cs) audio channel.
- **Ch.10 – Ch.14:** These channels are pass-through, meaning the output channel “X” will be playing the CPL's audio channel “X.” “X” will be a value between 10 and 14.
- **Ch.15 is HI:** Output ch.15 will be playing the CPL's Hearing Impaired (HI) audio channel.
- **Ch.16 is VI:** Output ch.16 will be playing the CPL's Narration (VI) audio channel.

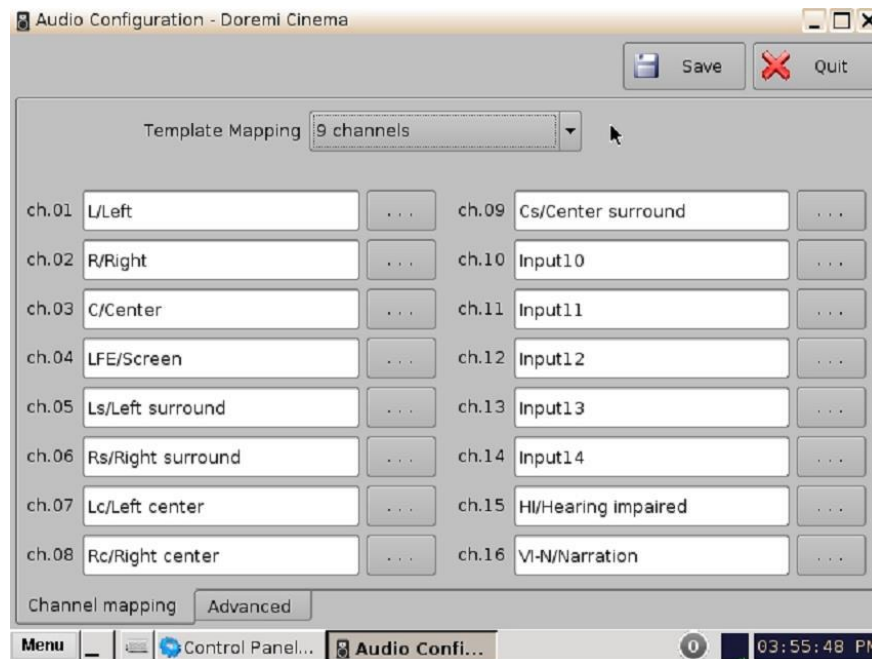


Figure 41: Audio Mapping Set to 9 Channels

5.2.1.2.6 ISDCF

This configuration is defined as follows (Figure 42):

- **Ch.01 is Left (L):** Output ch.01 will be playing the CPL's Left (L) audio channel.
- **Ch.02 is Right (R):** Output ch.02 will be playing the CPL's Right (R) audio channel.
- **Ch.03 is Center (C):** Output ch.03 will be playing the CPL's Center (C) audio channel.
- **Ch.04 is LFE/Screen (Sub-Woofer):** Output ch.04 will be playing the CPL's LFE/Screen (Sub-Woofer) audio channel.
- **Ch.05 is Left Surround (Ls):** Output ch.05 will be playing the CPL's Left Surround (Ls) audio channel.
- **Ch.06 is Right Surround (Rs):** Output ch.06 will be playing the CPL's Right Surround (Rs) audio channel.
- **Ch.07 is HI:** Output ch.07 will be playing the CPL's Hearing Impaired (HI) audio channel.
- **Ch.08 is VI:** Output ch.08 will be playing the CPL's Narration (VI) audio channel.
- **Ch.09 is Left Center (Lc):** Output ch.09 will be playing the CPL's Left Center (Lc) audio channel.
- **Ch.10 is Right Center (Rc):** Output ch.10 will be playing the CPL's Right Center (Rc) audio channel.
- **Ch.11 is Left Rear Surround (Lrs):** Output ch.11 will be playing the CPL's Left Rear Surround (Lrs) audio channel.
- **Ch.12 is Right Rear Surround (Rrs):** Output ch.12 will be playing the CPL's Right Rear Surround (Rrs) audio channel.
- **Ch.13 is Input:** ch.13 is pass-through, meaning the output channel "X" will be playing the CPL's audio channel "X."

- **Ch.14 is Input:** ch.14 is pass-through, meaning the output channel “X” will be playing the CPL's audio channel “X.”
- **Ch.15 is Input:** ch.15 is pass-through, meaning the output channel “X” will be playing the CPL's audio channel “X.”
- **Ch.16 is Input:** ch.16 is pass-through, meaning the output channel “X” will be playing the CPL's audio channel “X.”

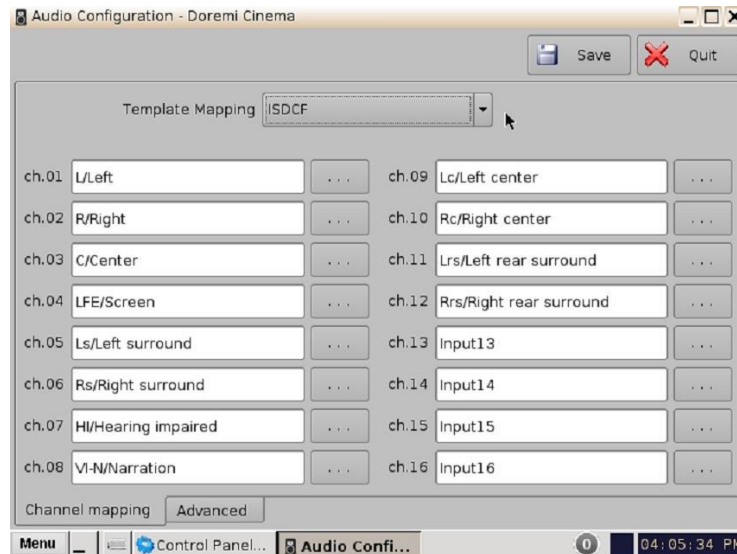


Figure 42: Audio Mapping Set to ISDCF

5.2.1.3 Custom Mapping Configuration

- Click on the drop-down menu and select Custom.
- The following window will appear (Figure 43).

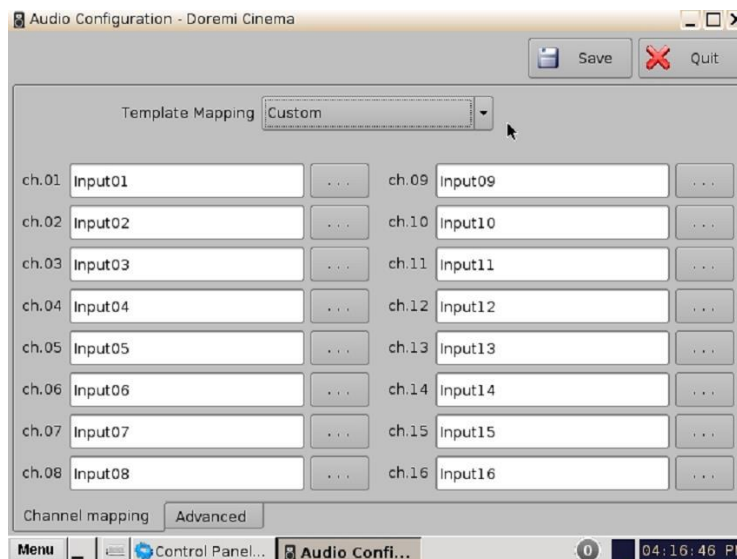


Figure 43: Custom Mapping

- Click on the Browse button ("...") for each output channel (ch.01-ch.16) to select the CPL's audio channel, using its label that is to be routed (Figure 44).

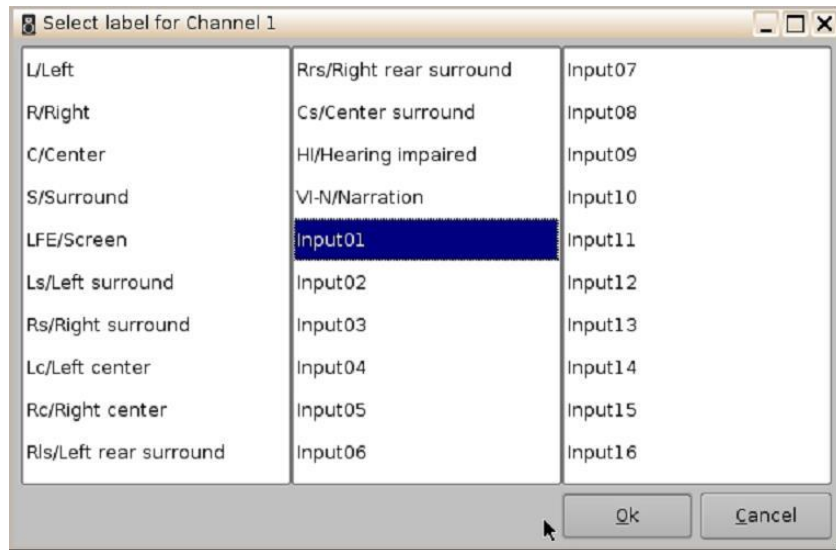


Figure 44: Custom Mapping Parameters

5.2.2 Advanced Tab

This tab allows the user to add a delay between audio and video by dragging the cursor to the desired delay on the graphical cursor that allows values between -200 milliseconds and 200 milliseconds. All audio tracks will get the same delay. You cannot add separate delays for each track. After the delay has been configured, click on the Save button to save the audio delay. The selected audio delay is shown in numeric characters below the cursor field (Figure 45).

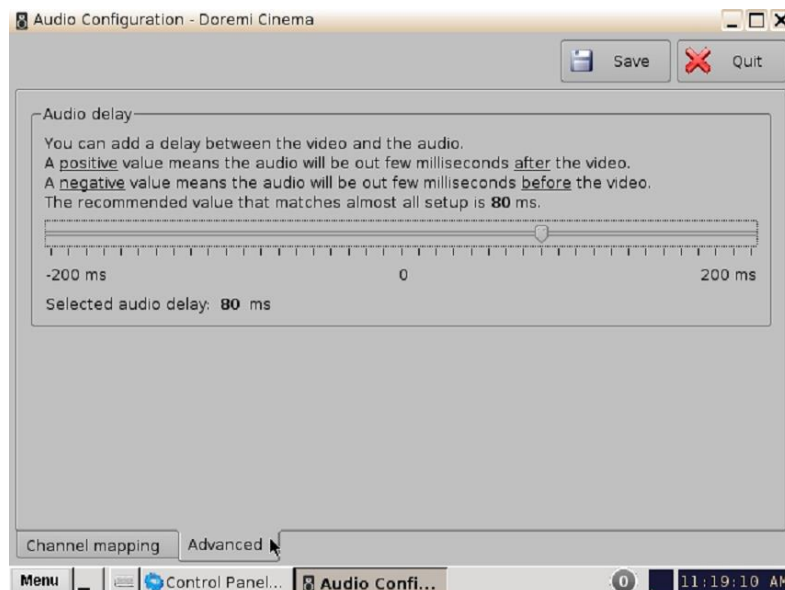


Figure 45: Advanced Tab

- Positive Value: The audio will be heard behind the video action.
- Negative Value: Indicates that the audio is heard ahead of the video action.
- The recommended value that almost matches all setups is 80 milliseconds.

5.2.3 SMPTE Packages

Note: The audio selection should reflect the audio package in number of audio channels.

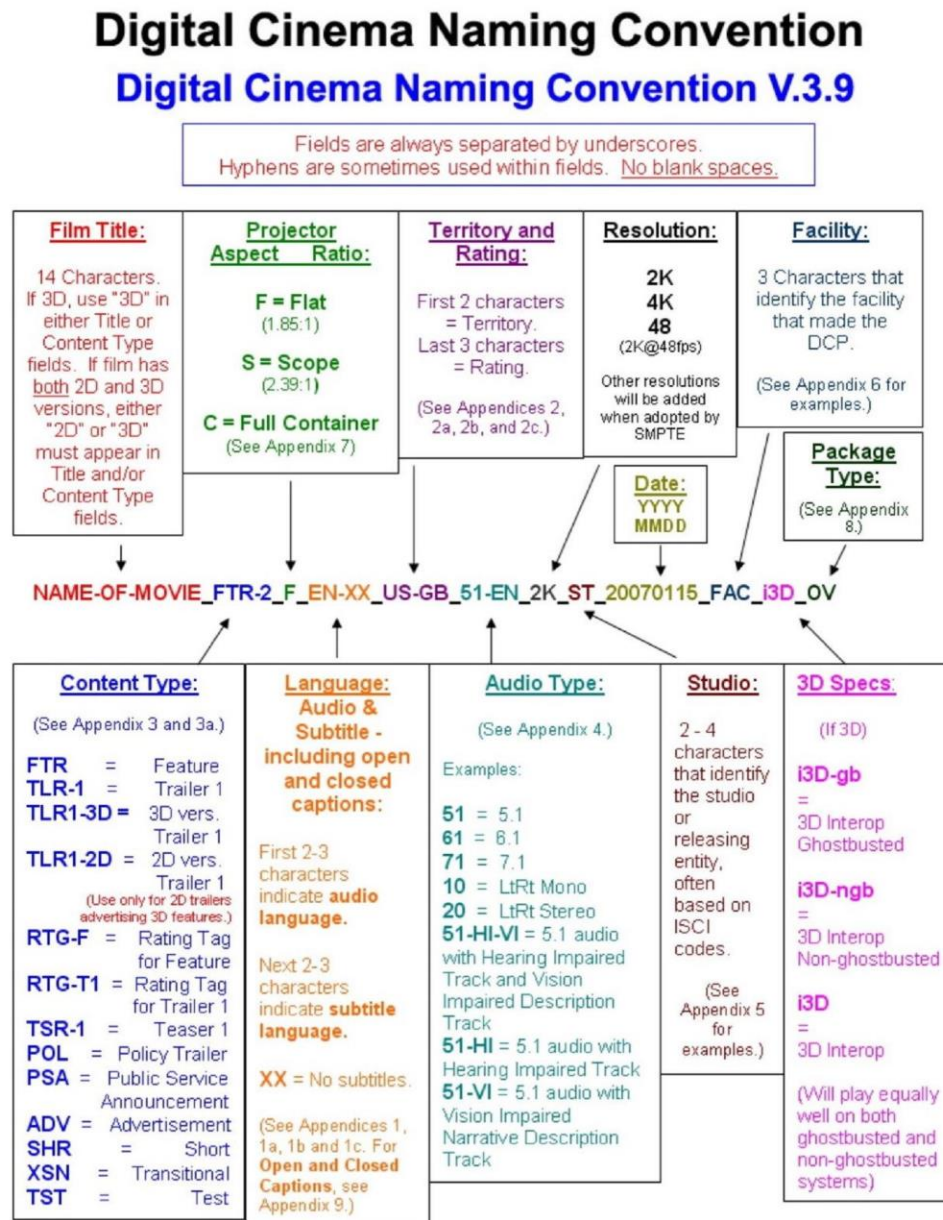
- You can change the Template Mapping setting by clicking on the list-menu and selecting the desired setting (Figure 36).
- Make sure to click the Save button to ensure the configuration is saved (Figure 35).
- The list of possible labels that can be routed (if present in the audio MXF file) are defined by SMPTE as follows:
 - L/Left
 - R/Right
 - C/Center
 - LFE Screen
 - Ls/Left surround
 - Rs/Right surround
 - Lc/Left center
 - Rc/Right center
 - Cs/Center surround
 - Rrs/Right rear surround
 - Lrs/Left rear surround
 - HI/Hearing Impaired
 - VI-N/Visual Impaired-Narration

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6 Digital Cinema Naming Convention

Most professionally mastered DCP's comply with the Digital Cinema Naming Convention, which assists the operator with determining the technical components of the content (Figure 46).

The following will assist you in determining if a DCP has been mastered to include the Hearing Impaired (HI) and Visually Impaired Narrative (VI-N) audio track(s).



Digital Cinema Naming Convention information provided by www.digitalcinemanamingconvention.com

Figure 46: Digital Cinema Naming Convention

Appendix 4:

Audio Configuration and Narrative Description Track Language

The first two characters denote the soundtrack configuration:

51 = 5.1

61 = 6.1

71 = 7.1 (Verify channel configuration with content provider.)

10 = 1.0 (LtRt Mono)

20 = 2.0 (LtRt Stereo)

Many DCPs now contain supplementary tracks for hearing impaired patrons, or / and supplementary narrative description tracks for vision impaired patrons. The presence of these tracks should be indicated in the Audio Type field as follows:

51-HI = 5.1 audio with a supplemental Hearing Impaired track.

51-VI = 5.1 audio with a supplemental Vision Impaired Narrative Description track.

51-HI-VI = 51 audio with both Hearing Impaired and Vision Impaired Narrative Description tracks.

It is important to note that there is no longer a specific language indicated in the Audio Type field for the HI or VI tracks, since most often this language will be the same as the language indicated earlier in the naming string in the Audio Language field.

Note: All other Appendix information referred to in Figure 46 can be found at www.digitalcinemanamingconvention.com.

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7 Technical Specs

7.1 System

Number of Transmitters to coexist per tablet	32 maximum
Max. unobstructed range, transmitter to headset	100 meters or 328 feet
Audio bandwidth	50Hz to 15kHz, stereo
Codec (digital audio compression scheme)	CELT (low latency) at 64 kbit/s
Frequency band	Selectable bands in the range 1880-1930MHz depending on country.
Other wireless systems for coexistence (CaptiView Transmitter)	ZigBee at 2.4 GHz
Latency (from USB transceiver output to headset)	Substantially constant, <40ms
Communication Type	Digital Enhanced Cordless Telecommunications (DECT)

7.2 Transmitter

Number of stereo channels per transmitter	2
Maximum number of receivers per transmitter	>200
Power supply	USB B-socket. Maximum current 500mA from 5V supply

7.3 Receiver

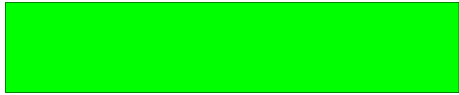
Format	Box with several buttons, miniature stereo jack
User controls	Volume, up and down buttons
User indicators	3LEDs, indicating charging; power on; channel selection
Number of channels selectable via configuration	At least 20 auditoria x[2 stereo channels and text]
Battery life at full audio volume (new battery)	12 hours
Battery charging	Charging connection studs on Fidelio charging stand base
Antenna	Dual diversity, internal board mounted

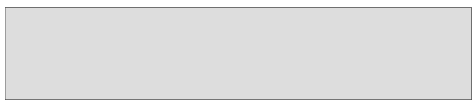
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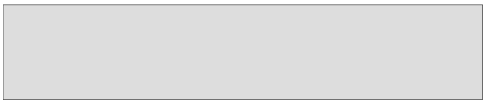
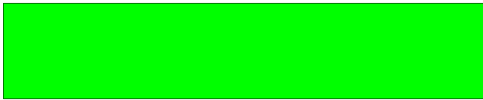
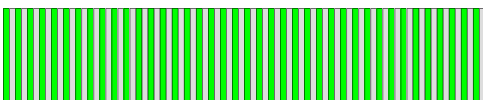
8 LED Lights Description

8.1 Receiver LEDs

- The Receiver has three LEDs: a Power LED and two channel LEDs (one for the HI channel and another for the VI channel).
- The patterns shown partly depend on whether the unit is docked (i.e., inserted in a powered-up configurator, or charger bay), or undocked (no external power present).
- While undocked, the LEDs will be lit dimly, for use in a dark cinema auditorium.
- While docked, the LEDs will be continuously lit.
- See the tables below for more information.

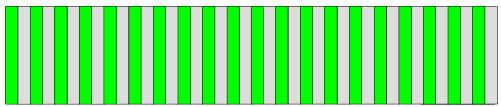
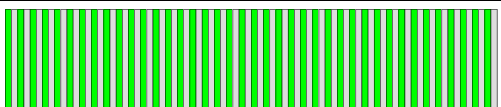
Receiver Power LED while docked	Pattern	Meaning
	Steady On	Battery charged (more than 80% full).
	Slow flash once every 2 seconds	Battery is charging.

Receiver Power LED while undocked	Pattern	Meaning
	Off	Device is turned off, and not using battery power
	Steady On	Device is turned on, and the battery is OK.
	On, with a brief off period every 2 seconds.	Device is turned on, and the battery is low.

Receiver HI or VI LED (docked or undocked)	Pattern	Meaning
	Both Off	The main receiver function of the device is turned off. If docked, the processor is still powered up, for configurator commands.
	One LED steady on	Receiving audio correctly from a HI or VI broadcast channel.
	One LED on, with an off period every 2 seconds	Receiving correctly, but unable to find a clear radio channel to transmit status messages.
	One LED flashing once per second.	Searching for a broadcast HI or VI channel.
	Both LEDs flash briefly every 2 seconds	No valid audio channel configured.
	Both LEDs flash rapidly, 5 times per second	Incorrect configuration data or radio uncalibrated.
	Both LEDs flash very rapidly, 10 times per second	In radio test mode.

8.2 Transmitter Unit LEDs

The Transmitter unit has two status LEDs (one per channel). The channels operate independently apart from timing synchronization, from Master to Slave.

Transmitter Channel Status LED (each channel)	Pattern	Meaning
	Steady On	AES3 input present and transmitting beacon or audio correctly.
	Brief flash every 2 seconds	No AES3 input connected (so not transmitting).
	Flashing once per second.	Unable to transmit; cannot find a clear channel due to radio band congestion.
	Flashing rapidly, 5 times per second	Incorrect configuration data, or radio uncalibrated, or (on the Slave channel) not synchronized to the Master channel.
	Flashing very rapidly, 10 times per second	In radio test mode.

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9 Fidelio Micro SD Card Replacement

The Fidelio Micro SD Card (Figure 47 and Figure 48) is where the system's auditorium assignments are stored. In the event a touchscreen tablet needs to be replaced, you will need to remove the system's original micro SD card so that it can be installed into the replacement touchscreen tablet. Otherwise, you will be required to re-assign all of the Fidelio Transmitters located throughout the complex.

The following steps explain this procedure.

Important: The Fidelio Touchscreen Tablet must be powered down completely before installing/removing a micro SD card.



Figure 47: Micro SD Card Pointing Up

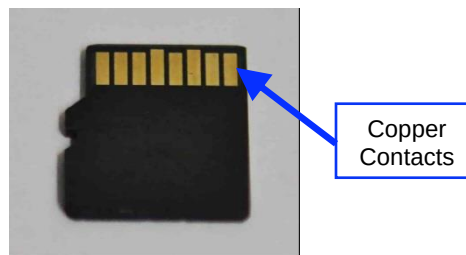


Figure 48: Micro SD Card Pointing Down



Figure 49: Fidelio Tablet – Micro SD Slot

- Insert the micro SD card into the Fidelio Tablet while making sure the top of the micro SD card is upright and the copper contacts on the backside go into the slot first (Figure 49 and Figure 50).



Figure 50: Fidelio Tablet – Micro SD Slot

- Use your finger nail or a non-metallic tool to push the micro SD card completely into the slot on the Fidelio Tablet (Figure 51). You will hear a click when the micro SD card has been installed successfully.



Figure 51: Non-Metallic Tool

- Once the micro SD card has been installed successfully, power up the Fidelio touchscreen tablet.
- Once the tablet is booted up fully, find and select the Fidelio application from the menu of applications.
- A message stating, “Files don't match,” will appear (Figure 52):

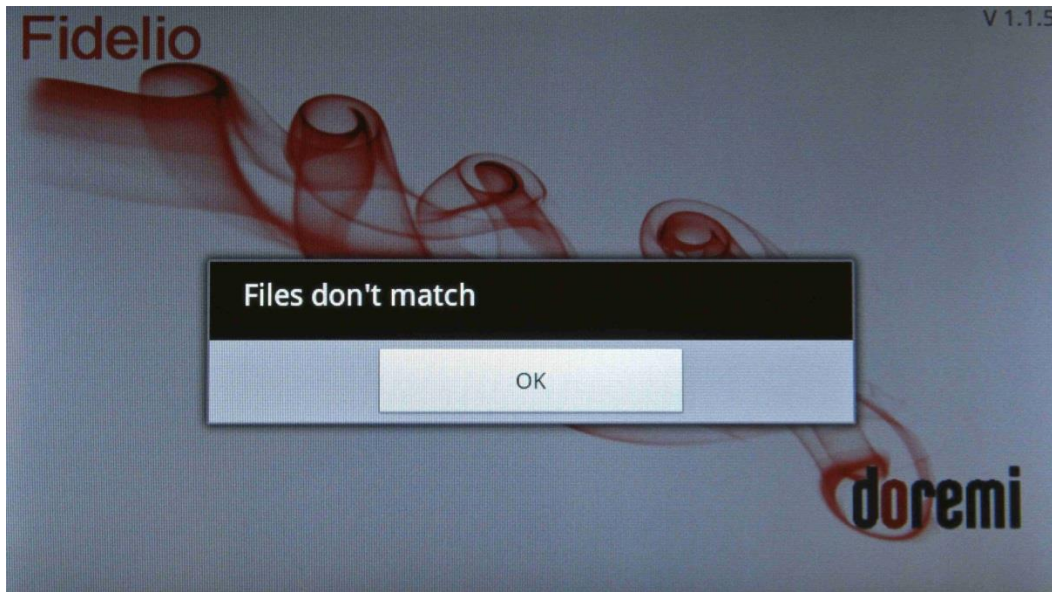


Figure 52: Files Don't Match Window

- Press Ok to continue.
- Another message will appear stating, "Use SD file or local file?"
- Press "SD" to continue (Figure 53).



Figure 53: Message Window

- Now the auditorium assignments that were located on the micro SD card will be loaded to the tablet's local file.
- The micro SD replacement procedure is now complete. Test the system by plugging a receiver into the Fidelio receiver port. All the auditorium assignments will be displayed. If experiencing any technical difficulties, please contact Doremi Labs Technical Support (Section 1.4).

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10 Troubleshooting

10.1 Generating a Detailed Report

The Diagnostic Tool application will display the following information on your system configuration:

- Software version
- Operating System
- Hardware
- Session ID

In the event that diagnostics are required, you may be asked to provide a Detailed Report from the Fidelio System.

- To do so launch the Diagnostic Tool application (Figure 54), and using the mini USB to standard USB connector, connect a USB Thumb Drive.

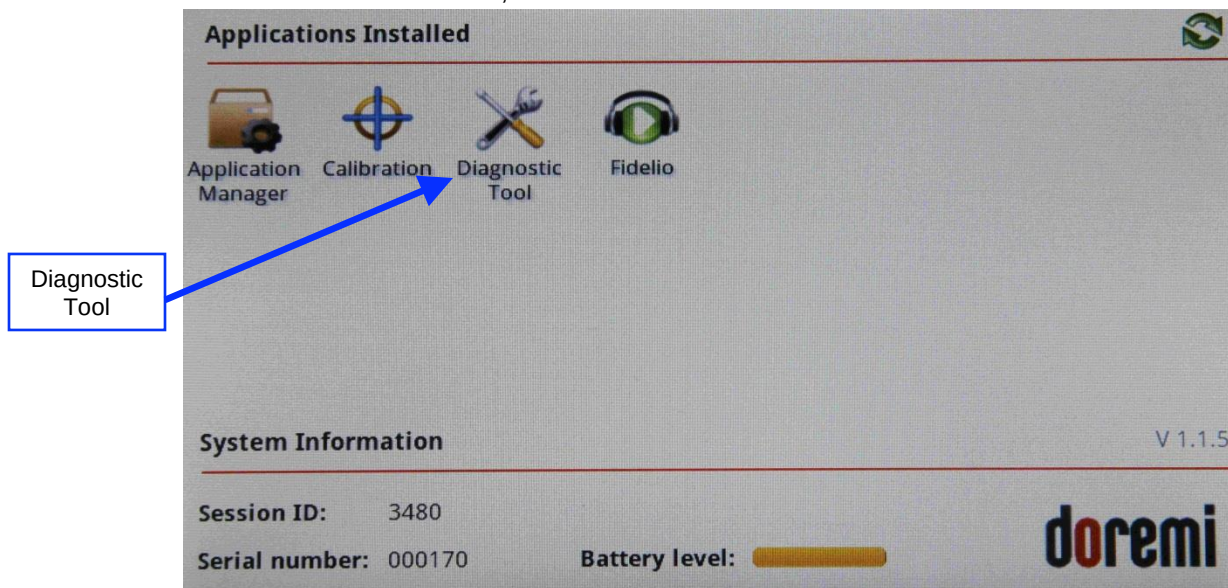


Figure 54: Diagnostic Tool Application

- Next, press the Detailed Report icon that appears on the screen (Figure 55).

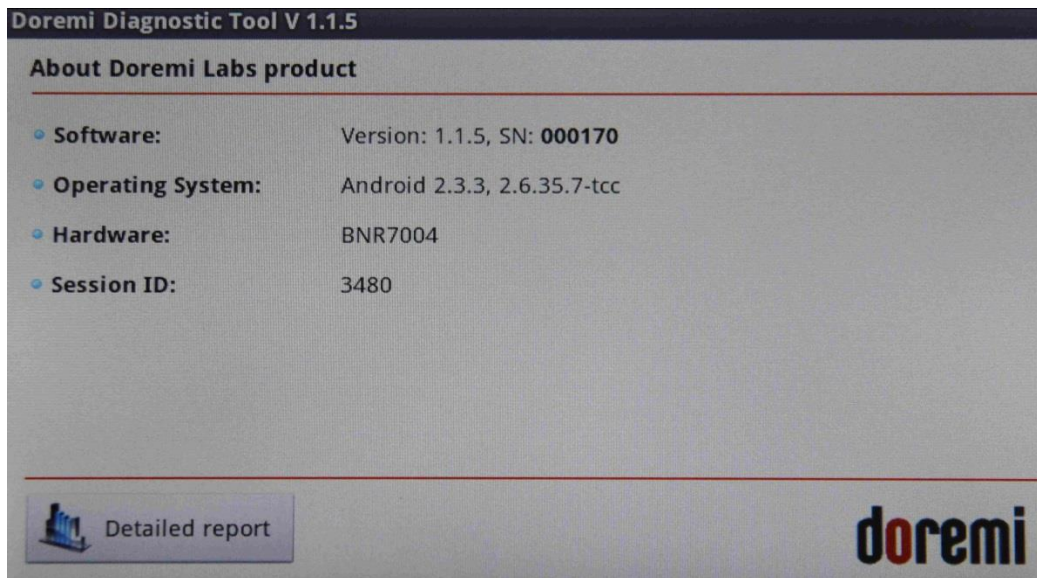


Figure 55: Detailed Report Button

- You will see a confirmation message that the report is being generated (Figure 56).

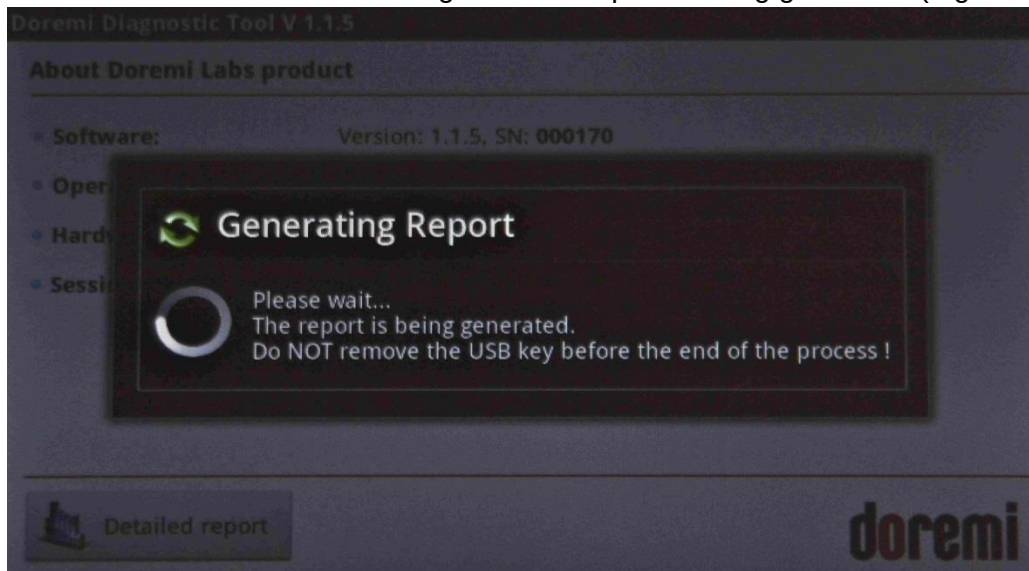


Figure 56: Generating Report

- When the process is complete, you will receive a message that states, "Report generated successfully on the USB key," along with the report number (Figure 57).

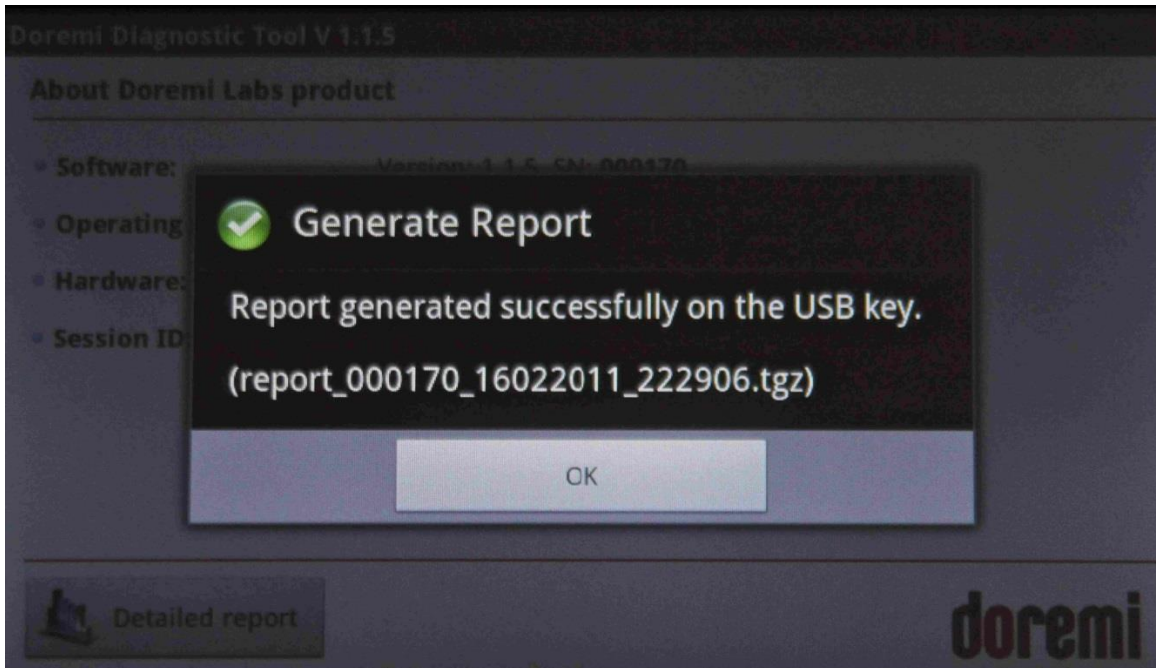


Figure 57: Report Generated Successfully

- Press the OK button to complete the process (Figure 57).
- It is this .tgz report that you will need to forward to an authorized Doremi Service Center for further diagnostics.
- Depress the Home button to return to the Applications Screen.

Note: If the report was not generated successfully, the following message will appear (Figure 58):

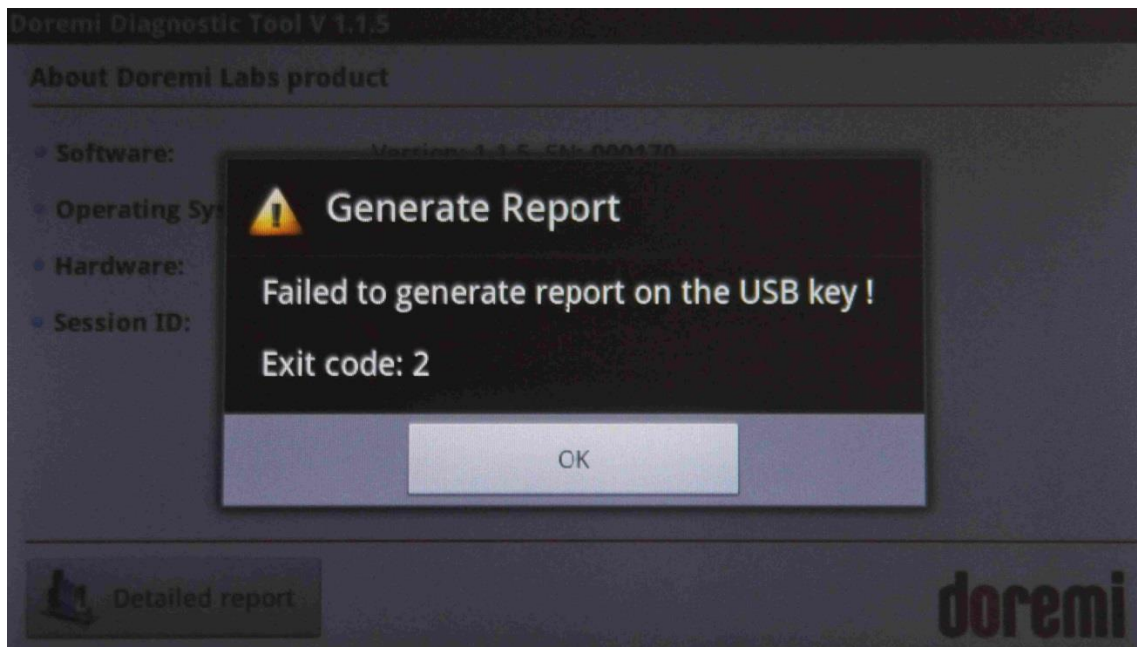


Figure 58: Report Not Generated Successfully

10.2 Updating the Fidelio Software

Application Manager: This application is used for updating the Fidelio tablet to a new version when required.

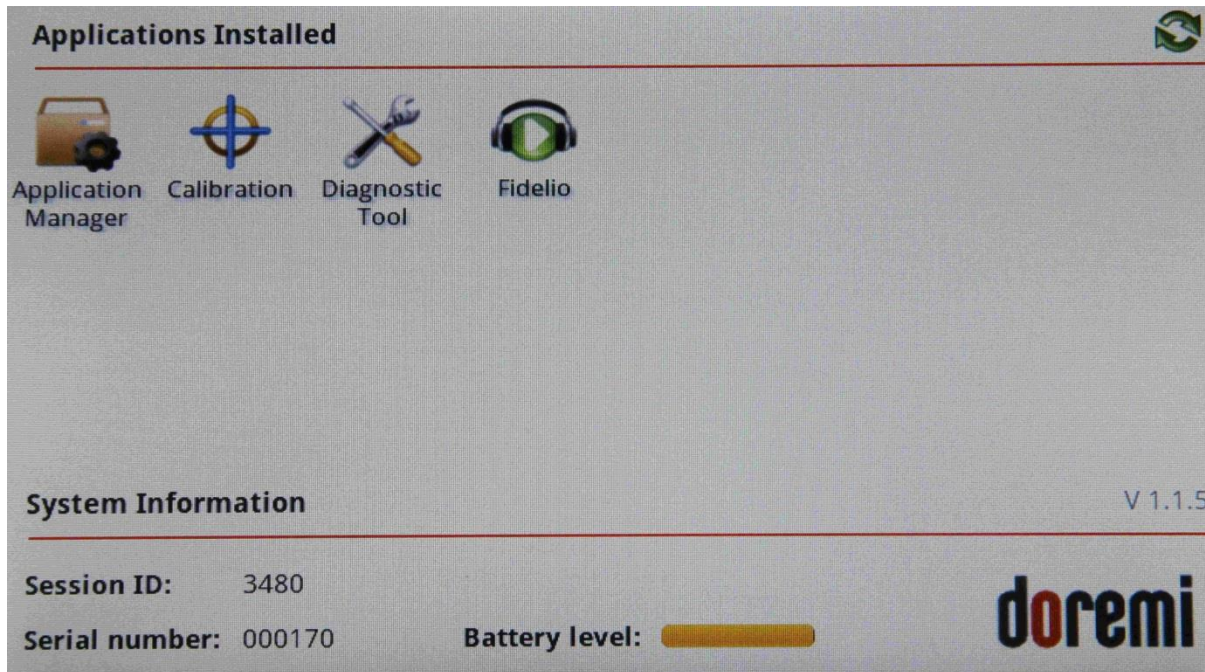


Figure 59: Application Manager

10.2.1 android_fidelio_tool_suite-1.1.5.pkz installation

- Using the mini USB to standard USB connector, connect a USB drive containing the Fidelio update to the tablet.
- Launch the Application Manager (Figure 59). The app will list the available packages on it.
- Click on the Install Package button to install the latest software package (Figure 60). For information on the latest software version, please contact Doremi Labs Technical Services.

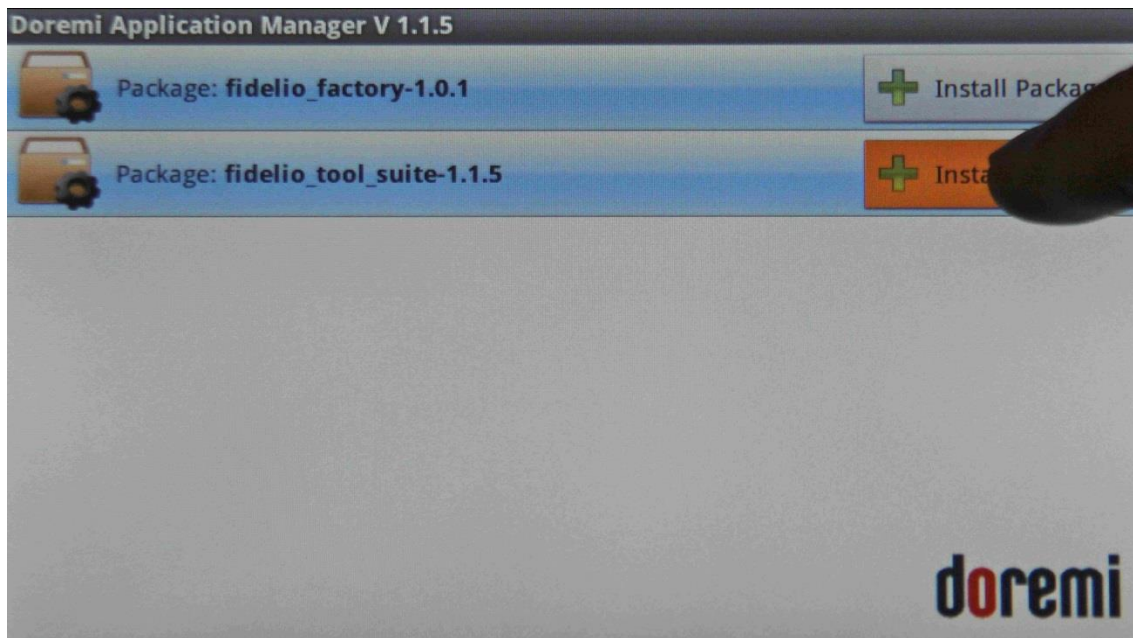


Figure 60: Install Package

- The app will tell you that the package was successfully installed (Figure 61). Tap Ok.

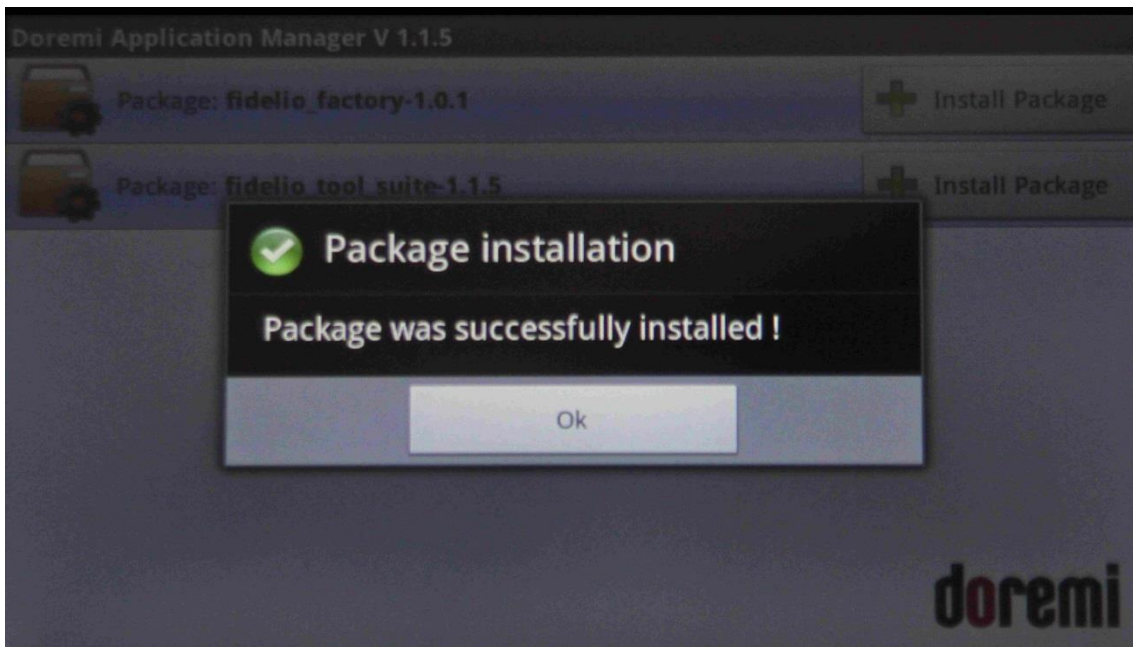


Figure 61: Package Installed Successfully

- Click on the silver button on the tablet. The app will ask you to reboot the tablet.
- Select Yes and then remove the USB key (Figure 62). The tablet will reboot and, after unlocking, you should see the serial number warning screen.

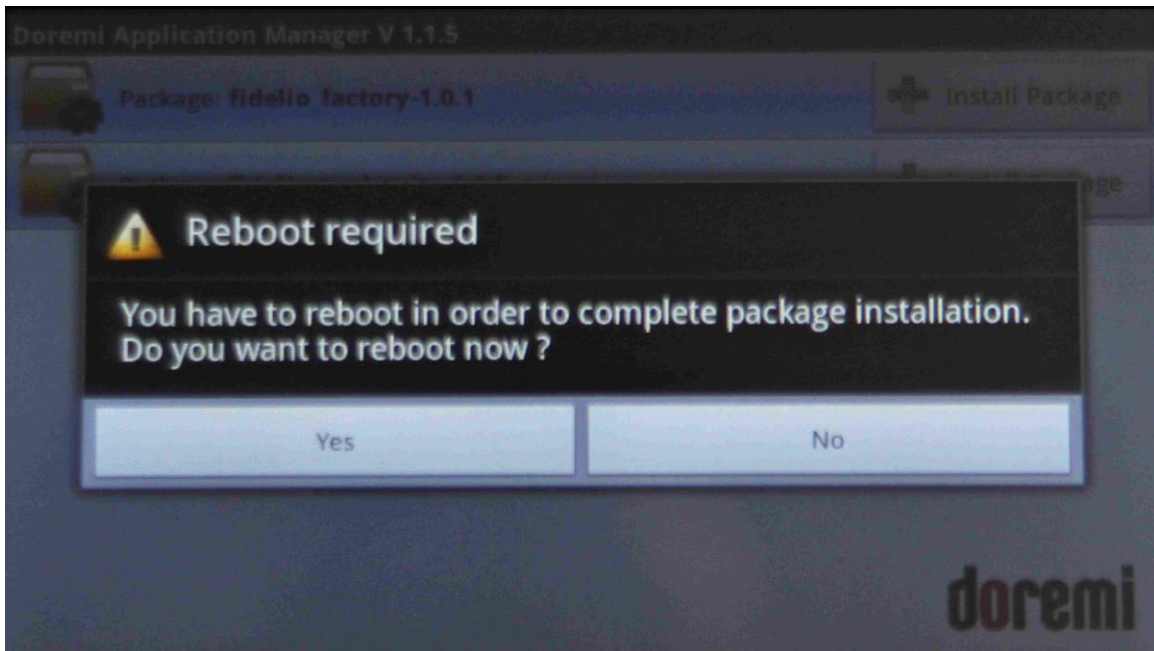


Figure 62: Reboot Warning

- Confirm that the updated software package you installed is present and verifiable on the Diagnostic Tool application window (Figure 63).

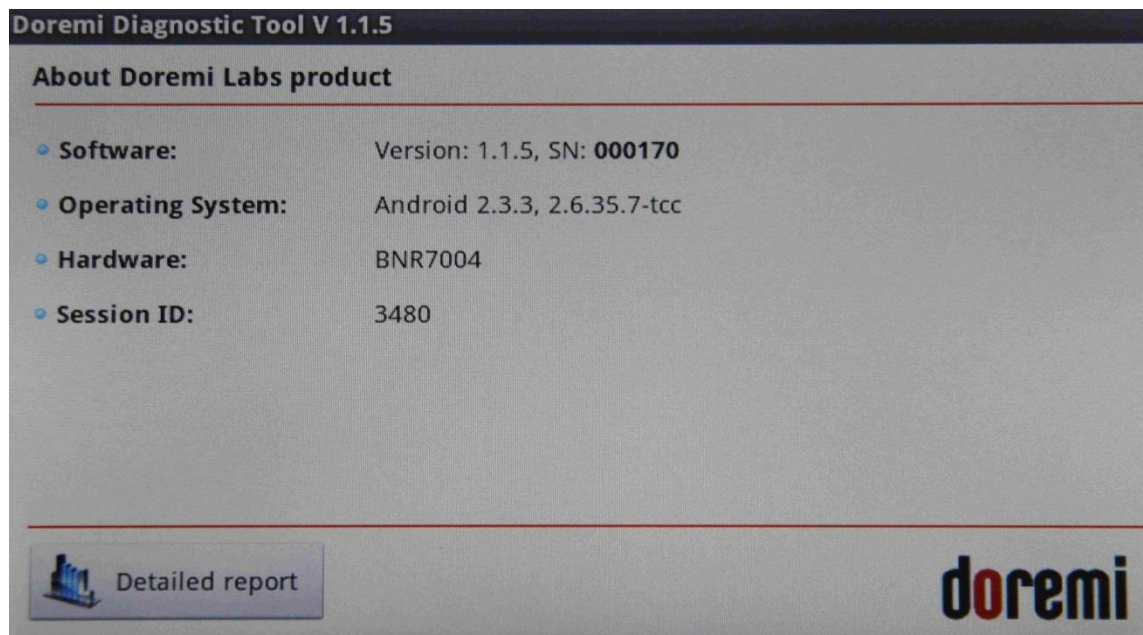


Figure 63: Diagnostic Tool Application

- Press the silver “home” button to be taken to the Fidelio home screen (Figure 64).

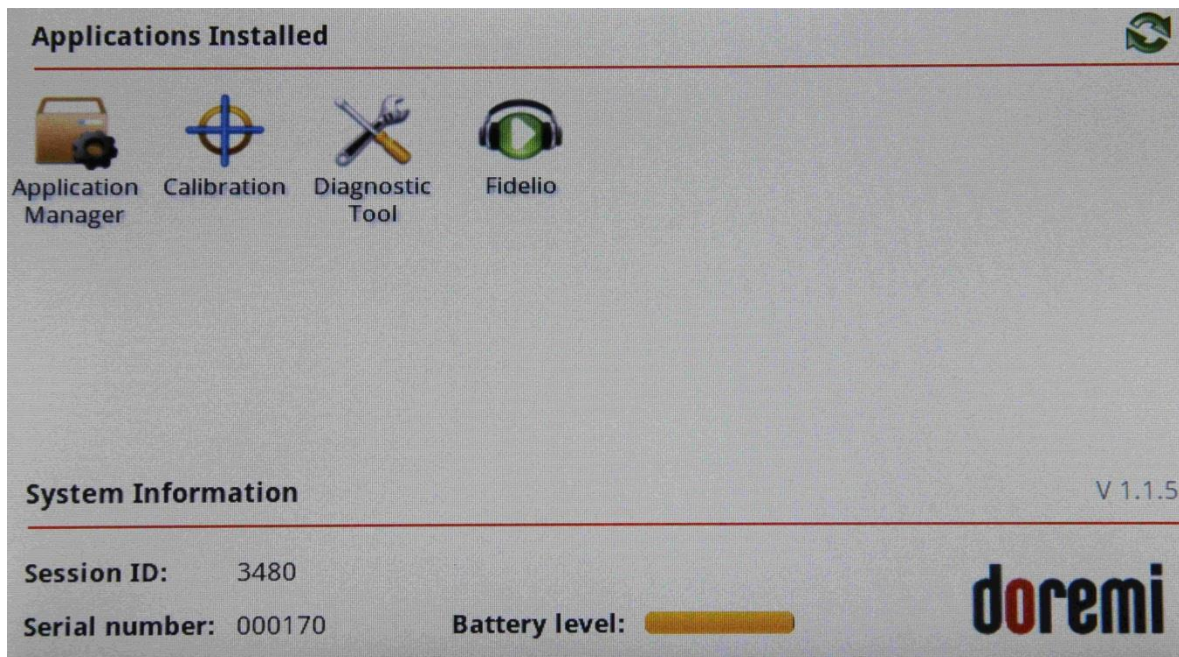


Figure 64: Home Screen

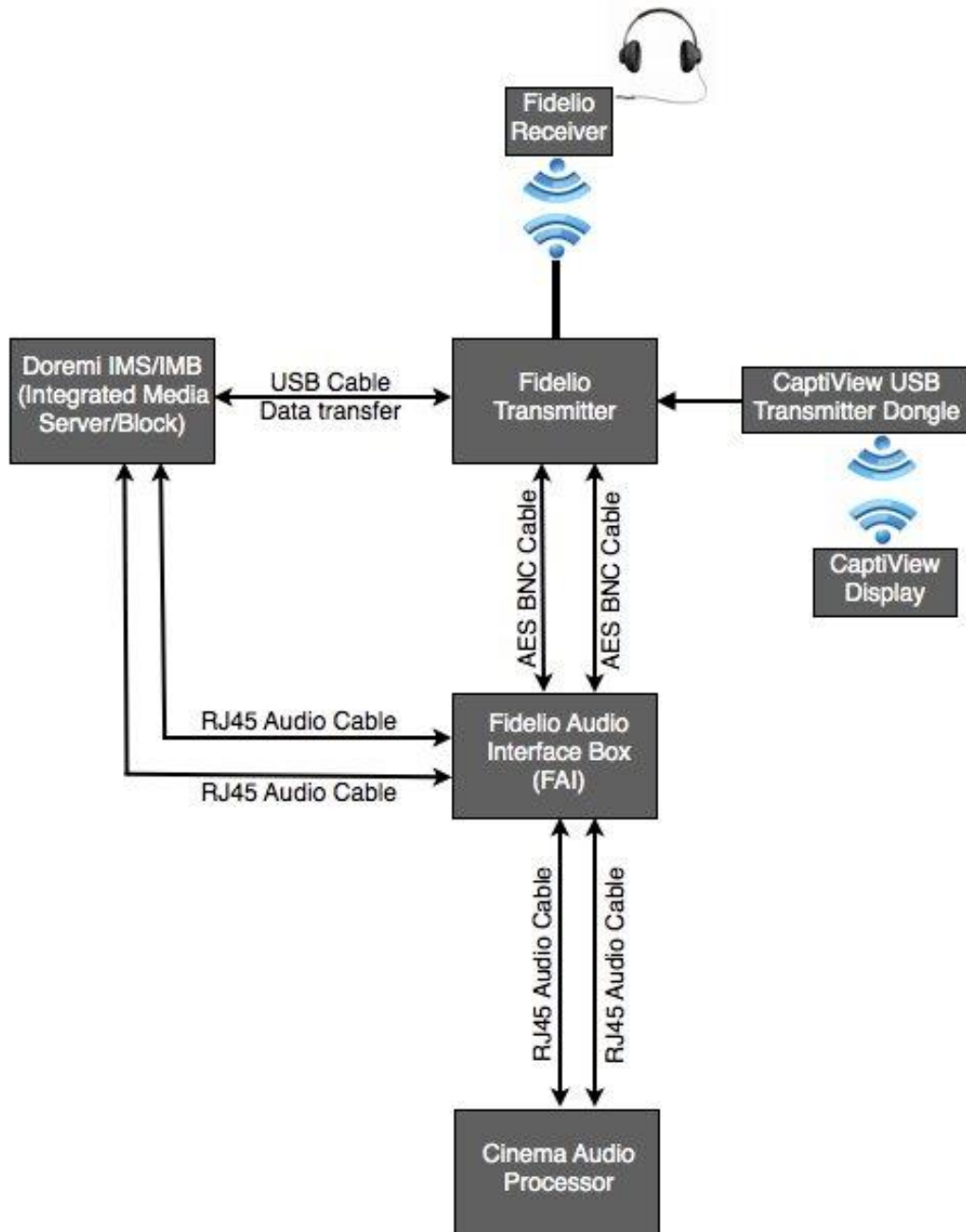
In the event a transmitter or receiver is not recognized by the Fidelio touchscreen tablet or base configuration port, try one or all of the following troubleshooting tips:

- Verify that you have the correct wiring configuration. For transmitter wiring, see Section 3. For receiver wiring, see Section 4.
- If may be necessary to connect the USB cable on the configuration base or on the touchscreen tablet.
- Reboot the Fidelio touchscreen tablet by depressing the Power button on the top right-hand side of the tablet. Power the tablet back on and launch the Fidelio Application ().

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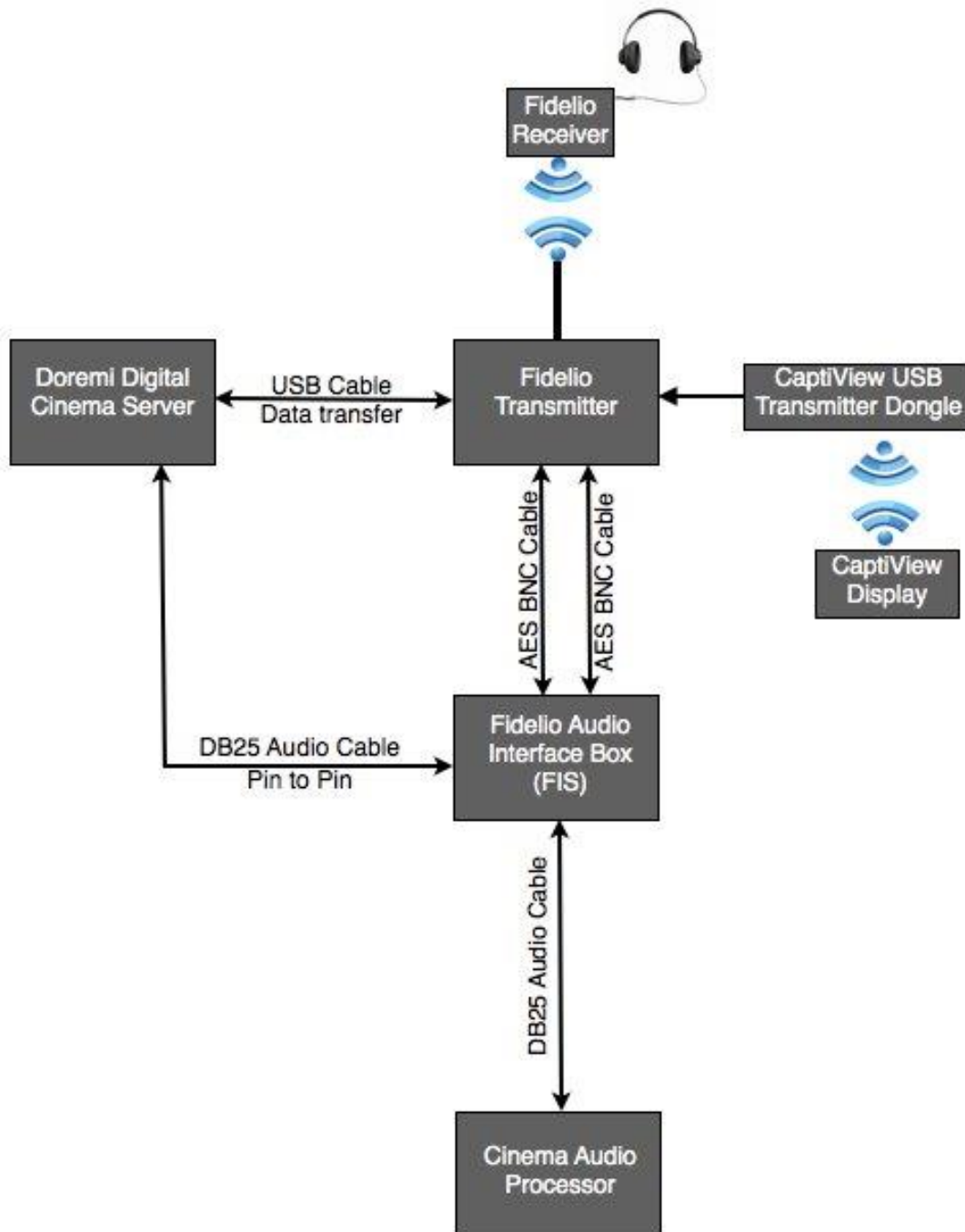
11 Appendix A: Wiring Guide

Fidelio Wiring Guide For Doremi IMS/IMB using RJ45 Audio Cables



Fidelio Wiring Guide

For Doremi Servers using DB25 Audio Cable



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12 Acronyms

Term	Definition
AES	Audio Engineering Society
DB25	D-Sub-miniature
DCP	Digital Cinema Package
HI	Hearing Impaired
LED	Light Emitting Diode
VI-N	Visually Impaired Narrative

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13 Document Revision History

Date	Revision	Description
11/01/2011	1.0	First version.
05/03/2012	1.1	New FCC warnings added. New Doremi logo added. New screen shots for version 1.1.5 added.
05/13/2013	1.2	Section 11 added and revisions made to Sections 3.1.5 and 7.1.